



# LEGISLATIVE BRANCH CITY OF BINGHAMTON

Teri Rennia, City Council President  
Jeremy Pelletier, City Clerk

## CITY COUNCIL WORK SESSION AGENDA City Council Work Room, 38 Hawley Street, Binghamton Monday September 15, 2014

*The Work Session begins at 7:00pm. Times for RL(s)/Topics are approximate only and items may be considered earlier or later.*

Time	Committee	Chair	RL(s)/Topic	Pages	Presenter
7:00pm	-----	-----	<b>Discussion:</b> 20 Hawley Street	-----	Joseph Genzano
7:15pm	-----	-----	<b>Discussion:</b> Summer Youth Work Program	-----	Bill Barber
7:30pm	-----	-----	<b>Discussion:</b> Binghamton University/City of Binghamton Police Partnership Initiative	-----	Jared Kraham
7:45pm	-----	-----	<b>Discussion:</b> Review of Engineering Services conducted by the Temporary Engineer	-----	Gary Holmes
	Finance	Berg	<b>RL 14-125:</b> Amending agreement with Keystone Associates to add Woitdt Engineering to perform SWPPP Reviews	1-2	
	Finance	Berg	<b>RL 14-129:</b> Amending 2012 and 2013 Capital budget	12-17	
	Finance	Berg	<b>RL 14-130:</b> Agreement with GHD for design services at BJCJSTP	18-62	
	Finance	Berg	<b>RL 14-131:</b> Supplemental No. 2 with NYSDOT for Riverside Drive/Beethoven St. Signal Upgrade	63-64	
	Finance	Berg	<b>RL 14-132:</b> Supplemental No 6 with Delta Engineers for modification to traffic signal at 225 Front St. and ROW Clearance	65-80	
	Finance	Berg	<b>RL 14-133:</b> Agreement with McFarland Johnson for design services for the E. Clinton St. Bridge Project	81-102	
	PW/Parks	Motsavage	<b>RL 14-134:</b> Supplemental No. 2 with Clark Patterson for the Susquehanna North Bank Trail Project	103-109	
8:15pm	Finance	Berg	<b>RL 14-127:</b> Acceptance of a gift in the form of labor and materials from Stellar 6001 LLC	5-7	Tom Costello
8:30pm	Planning	Webb	<b>RL 14-123:</b> Moratorium on Sections 410-51.E and 410-51.H	110	Kenneth J. Frank
8:45pm	Finance	Berg	<b>RL 14-126:</b> LGRMIF Grant funds acceptance	3-4	Jeremy Pelletier
	Planning	Webb	<b>RL 14-128:</b> Sale of 177 Oak Street to John and Alberta Casey	8-11	



## LEGISLATIVE BRANCH      CITY OF BINGHAMTON

*Teri Rennia, City Council President*

*Jeremy Pelletier, City Clerk*

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<b>9:00pm</b>	-----	-----	<b>Discussion:</b> Review Sale of 24 Livingston Street	-----	Councilman Berg; Councilman Matzo
<b>9:15pm</b>	-----	-----	<b>Discussion:</b> Review of 2015 Budget Hearing	-----	Councilman Berg
<b>9:30pm</b>	-----	-----	<b>Discussion:</b> Review of Committee Reports & Pending Legislation	-----	Council President Rennia

### COMMITTEE REPORTS

**Employees Committee: Berg (Chair), Webb, Papastrat**

Potential amendments to residency requirements for City of Binghamton employees.

Review of salaries of non-union employees.

**Municipal & Public Affairs Committee: Motsavage (Chair), Webb, Matzo**

Potential amendments to the City of Binghamton's noise ordinance regulations.

**Public Works/Parks & Recreation Committee: Motsavage (Chair), Berg, Mihalko**

Review the Traffic Signal Removal Study.



# Legislative Branch

RL Number:

14-125

Date Submitted:

9/5/14

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

*Requests for Legislation (RLs) may be submitted to the City Clerk's Office for consideration at City Council Work Sessions. RLs generated from within City Hall departments must be submitted to the Mayor, Comptroller and Corporation Counsel for review before submission. RLs generated by citizens may be submitted directly to the City Clerk's Office.*

### Applicant Information

Request submitted by: Gary R. Holmes, P.E.

Title/Department: Acting City Engineer, Engineering Dept.

Contact Information: grholmes@cityofbinghamton.com

### RL Information

Proposed Title: Agreement to Add Woit Engineering to Agreement with Keystone Associates  
to Perform Storm Water Pollution Plans (SWPPP) Reviews

Suggested Content: The agreement will add Woit Engineering to the current one-year term  
agreement with Keystone Associates to perform SWPPP reviews for development and  
redevelopment projects. The amount of current agreement with Keystone Assoc. is NTE \$4,500. There  
will be no change in funding for reviews or budget line encumbrance in line A1440.54410 Prof. Srv

### Additional Information




Does this RL concern grant funding? Yes ☐ No ☒

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☒

Is additional information related to the RL attached? Yes ☐ No ☒

Is RL related to previously adopted legislation? Yes ☒ No ☐

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s): \_\_\_\_\_

Mayor:						
Comptroller:						
Corporation Counsel:						
Finance <input type="checkbox"/>	Planning <input type="checkbox"/>	MPA <input type="checkbox"/>	PW/Parks <input checked="" type="checkbox"/>	Employees <input type="checkbox"/>	Rules/Special Studies <input type="checkbox"/>	



THE COUNCIL OF THE CITY OF BINGHAMTON  
STATE OF NEW YORK

Date: August 20, 2014

Sponsored by Council Members: Motsavage, Mihalko, Berg, Rennia, Matzo, Webb

Introduced by Committee: Public Works/Parks and Recreation

RESOLUTION

*entitled*  
A RESOLUTION AUTHORIZING THE MAYOR  
TO ENTER INTO AN AGREEMENT WITH  
KEYSTONE ASSOCIATES TO PERFORM  
STORM WATER POLLUTION PREVENTION  
PLAN (SWPPP) REVIEWS

WHEREAS, the City of Binghamton wishes to enter into an agreement with Keystone Associates to perform Storm Water Pollution Prevention Plan (SWPPP) Reviews at a cost not to exceed \$4,500; and


WHEREAS, funding is available from budget line A1440.54410 (Professional Services).

NOW, THEREFORE, the Council of the City of Binghamton, duly convened in regular session, does hereby:

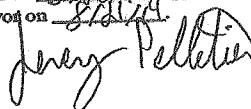
RESOLVE that the Mayor of the City of Binghamton, or his designee, is hereby authorized to enter into an agreement, approved as to form and content by the Office of Corporation Counsel, with Keystone Associates to perform SWPPP Reviews at a cost not to exceed \$4,500; and be it further

RESOLVED that funding shall be deducted from budget line A1440.54410 (Professional Services).

I HEREBY CERTIFY that the above described  
funds are unencumbered and available.

  
Chuck Shager, Comptroller

I hereby certify the above to be a true copy  
of the legislation adopted by the Council  
of the City of Binghamton at a meeting  
held on 8/20/14 Approved by the  
Mayor on 8/20/14







# Legislative Branch

RL Number:

14-126

Date Submitted:

9/9/2014

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

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### Applicant Information

Request submitted by: Jeremy Pelletier

Title/Department: City Clerk

Contact Information: 607-772-7005

### RL Information

Proposed Title: A Resolution authorizing the acceptance of \$9,310 from the New York State Archives Local Government Records Management Improvement Fund Grant

Suggested Content:

### Additional Information

Does this RL concern grant funding? Yes ☒ No ☐

If 'Yes', is the required RL Grant Worksheet attached? Yes ☒ No ☐

Is additional information related to the RL attached? Yes ☐ No ☒

Is RL related to previously adopted legislation? Yes ☒ No ☐

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s): R14-4

### OFFICE USE ONLY

Mayor: \_\_\_\_\_

Comptroller: \_\_\_\_\_

Corporation Counsel: \_\_\_\_\_

Finance ☒

Planning ☐

MPA ☐

PW/Parks ☐

Employees ☐

Rules/Special Studies ☐



# Legislative Branch

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City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

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## GRANT APPLICATION WORKSHEET

*The Request for Legislation must include the project title and the purpose of the grant.  
Please provide the following additional information.*

Agency providing the grant: New York State Archives

Total project cost: \$9,310.00

Total amount of grant: \$9,310.00

Local match (if any): None

If local match is monetary, provide the budget line and title: \_\_\_\_\_

If local match is "in kind", provide the anticipated personnel and hours to be dedicated to the project:

\_\_\_\_\_

Disbursement of grant (upfront, reimbursable?): Upfront

If reimbursable, source of funds pending reimbursement: \_\_\_\_\_

Grant project manager: Jeremy Pelletier

Anticipated date of project completion: June 30, 2015

Special project completion requirements (if any): \_\_\_\_\_

**Attach any required form of Resolution from the Agency providing the grant.**

Please provide any additional information in the space provided below, including any other government agency or private partner participating in the grant, along with a description of such participation:

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# Legislative Branch

RL Number:

14-127

Date Submitted:

9/10/19

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

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### Applicant Information

Request submitted by: Thomas F Costello

Title/Department: Supervisor of Building Construction, Office of Building Construction

Contact Information: tfcostello@cityofbinghamton.com

### RL Information

Proposed Title: Accept gift from Stellar 6001 LLC

Suggested Content: Accept a gift, in the form of labor and materials, to include installation of same, as required for overhead lighting, fire safety, and access to parking ramp (security apparatus) in the City-owned transit ramp located between the residence at 83 Court/17Chenango (University Lofts) and the State Street Parking ramp. Retail value of donation is \$2650 (ref: correspondence, attached).

### Additional Information

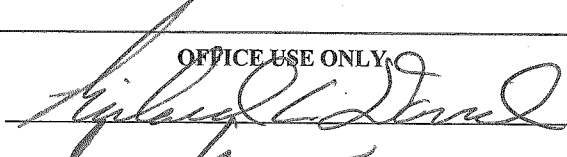

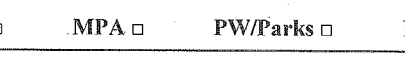
Does this RL concern grant funding? Yes ☐ No ☒

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☒

Is additional information related to the RL attached? Yes ☒ No ☐

Is RL related to previously adopted legislation? Yes ☐ No ☒

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s):

Mayor:						
Comptroller:						
Corporation Counsel:						
Finance <input checked="" type="checkbox"/>	Planning <input type="checkbox"/>	MPA <input type="checkbox"/>	PW/Parks <input type="checkbox"/>	Employees <input type="checkbox"/>	Rules/Special Studies <input type="checkbox"/>	

**Costello, Thomas**

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**From:** Stephen Gladstone [sgladstone89@gmail.com]  
**Sent:** Tuesday, September 09, 2014 4:26 PM  
**To:** Costello, Thomas  
**Subject:** Re: parking ramp

Tom,

We propose to install and maintain overhead LED puck lights every 10-12 feet, emergency lighting and exit signs in the parking garage ramp connected to the cities electric supply. We have confirmed power is in the ramp.

I will have an estimate tomorrow from the electrician so you can address the matter of the gift to the city.

We would like to install our key fob system on the door from the garage into the ramp (currently this door is locked at night). We will supply the city (Laz) with a key and keep the door locked at all times. We will maintain a key for programming. Our residents will have access by key fob only.

We will clean up the ramp and maintain it on a daily basis.

Please let me know if there is any additional information required.

Thank you.

Stephen Gladstone  
Stellar 6001 LLC  
60-01 31st Avenue  
Woodside, NY 11377  
718.204.0002, x320

Sent from my iPhone

> On Sep 9, 2014, at 2:15 PM, "Costello, Thomas" <[tfcostello@cityofbinghamton.com](mailto:tfcostello@cityofbinghamton.com)> wrote:  
>

> I will call you in about a half hour...

>

> -----Original Message-----

> From: Stephen Gladstone [<mailto:sgladstone89@gmail.com>]

> Sent: Tuesday, September 09, 2014 12:04 PM

> To: Costello, Thomas

> Subject: parking ramp

>

> Tom,

>

> Do you have some time to meet today to discuss the parking ramp?

>

> Thank you.

>

> Stephen Gladstone

> Stellar 6001 LLC

> 60-01 31st Avenue

> Woodside, NY 11377

> 718.204.0002, x320



# Schuler-Haas Electric Corp.

701 Azon Road, Suite 203E • Johnson City, NY 13790 • (607) 722-3312 • FAX (607) 724-5607 •  
[www.schuler-haas.com](http://www.schuler-haas.com)

September 11, 2014

LeChase Construction, LLC  
33 Frederick Street  
Binghamton, NY 13901

RE: University Lofts/Budgetary #  
Pedestrian bridge from U Lofts to Parking Garage

Attn: Luke Stoddard

We are pleased to submit the following pricing for the above referenced project. Our work includes the following:

- 5 walkway lights
- 2 exit lights
- 1 EM light

Our work can be completed for the sum of \$2,650.00.

If you have any questions or concerns please feel free to contact me at 607-722-3312.

Sincerely,

*Tim Gomolka*

Tim Gomolka  
Superintendent  
[tgomolka@schuler-haas.com](mailto:tgomolka@schuler-haas.com)



# Legislative Branch

RL Number:

14-128

Date Submitted:

9/11/2014

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

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### Applicant Information

Request submitted by: Jeremy Pelletier

Title/Department: City Clerk

Contact Information: 607-772-7005, clerk@cityofbinghamton.com

### RL Information

Proposed Title: An Ordinance authorizing the sale of 177 Oak Street to John and Alberta Casey for \$3,000

Suggested Content: Approved by the Board of Estimate and Apportionment on 9/10/14, subject to the condition that the property must be merged with the applicants property at 179 Oak Street and that landscaping and a driveway surface is required, as approved by the Planning Department

### Additional Information

Does this RL concern grant funding? Yes ☐ No ☒

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☒

Is additional information related to the RL attached? Yes ☐ No ☐

Is RL related to previously adopted legislation? Yes ☐ No ☒

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s): \_\_\_\_\_

### OFFICE USE ONLY

Mayor: \_\_\_\_\_

Comptroller: \_\_\_\_\_

Corporation Counsel: \_\_\_\_\_

Finance ☐ Planning ☒ MPA ☐ PW/Parks ☐ Employees ☐ Rules/Special Studies ☐



# LEGISLATIVE BRANCH • CITY OF BINGHAMTON

Teri Rennia, City Council President  
Angela Fagerstrom, City Clerk

## OFFER TO PURCHASE

Please provide the following information relating to an Offer to Purchase City-owned property. This document must be submitted to the Office of the City Clerk in a sealed envelope for consideration.

RECEIVED

### PROPERTY INFORMATION

Street Address of Property:

177 Oak St.

AUG 8 2014

Tax Parcel ID Number:

160.24-1-52

OFFICE OF THE CITY CLERK  
CITY OF BINGHAMTON

Current Use of Property:

☒ Residential

☐ Commercial

☒ Vacant Lot

☐ Mixed Use

Offered Purchase Price:

3000.00

In the space provided below, please describe the intended use of the property. The inclusion of a map or illustration depicting the intended use of the property may expedite the review process.

Add 177 Property to 179 Oak St. Property for off street parking and larger yard area. No commercial vehicles or equipment will be parked in this area, tenant parking only. Proposal subject to site being filled + cleared of brush.

### APPLICANT INFORMATION

Name of Applicant:

John F. Casey, Alberta M. Casey

Note: If the applicant is a company or corporation, please list all shareholders or members.

Mailing Address:

19 Delavan Ave., Binghamton, N.Y. 13903

Telephone: (607) 723-2010

Email: bertgirl7@stnyrr.com

Please list any other properties owned by the Applicant (or shareholders or members) in Broome County:

105 Park Ave. Binghamton, N.Y. 13903

2116 Vestal Pkwy. E Vestal N.Y.

40 Hatfield Rd. Town of Barker

I hereby certify that the above information is a true account of my intended purchase and use of City-owned property. I understand that upon approval of any such sale, any deviance from the agreed upon terms and conditions may result in the termination of such agreement through proper legal proceedings.

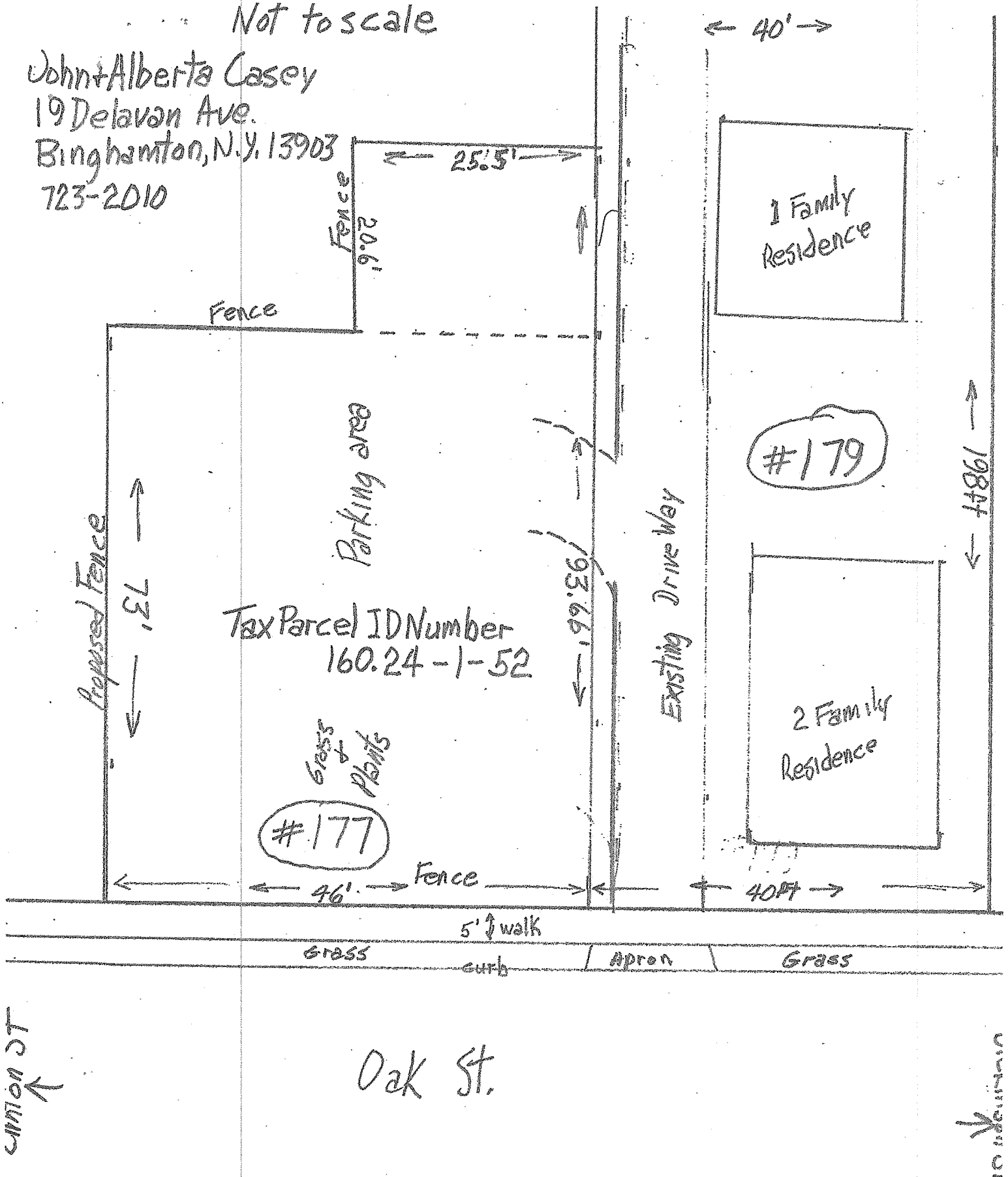
John F. Casey, Alberta M. Casey  
Applicant Signature

Date

Aug. 8, 2014

Not to scale

John + Alberta Casey  
19 Delavan Ave.  
Binghamton, N.Y. 13903  
723-2010









# Legislative Branch

RL Number:

14-129

Date Submitted:

9/12/14

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

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### Applicant Information

Request submitted by: Gary R. Holmes, P.E.

Title/Department: Commissioner/Public Works

Contact Information: grholmes@cityofbinghamton.com

### RL Information

Proposed Title: Substitute Approved Lease Equipment Purchase

Suggested Content: In the adopted 2012 & 2013 capital lease budget City Council approved the purchase of a Transfer Trailer & Asphalt Recycler. The Public Works Department wishes to substitute

a John Deere Front End Loader at a cost of \$164,956 for the previously approved items.

No Budget Line

### Additional Information

Does this RL concern grant funding? Yes ☐ No ☒

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☒

Is additional information related to the RL attached? Yes ☒ No ☐

Is RL related to previously adopted legislation? Yes ☒ No ☐

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s): 2012 & 2013 Budget

Mayor:	<u>Michael J. David</u>				
Comptroller:	<u>[Signature]</u>				
Corporation Counsel:	<u>[Signature]</u>				
Finance <input checked="" type="checkbox"/>	Planning <input type="checkbox"/>	MPA <input type="checkbox"/>	PW/Parks <input type="checkbox"/>	Employees <input type="checkbox"/>	Rules/Special Studies <input type="checkbox"/>

## CITY OF BINGHAMTON 2013 CAPITAL IMPROVEMENTS PLAN

## SOURCES OF FUNDING

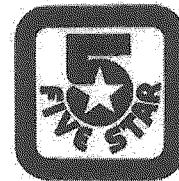
PROJECT/DEPARTMENT	2013 BAN	2013 Capital Lease	CHIPS	Water Fund	Sewer Fund	Parking Ramp Fund	Sale of Equipment	General Fund	TOTAL COST
<b>EQUIPMENT</b>									
<b>POLICE</b>									
Police Cars (6 @ 31,000)		186,000					10,000		186,000
Equipment/Repair									10,000
<b>FIRE</b>									
Equipment/Repair							20,000		20,000
Rescue One Connector Boat & Trailer		35,000							35,000
<b>PARKING RAMPS</b>									
Encoding Ticket Dispenser	18,586								18,586
<b>PARKS</b>									
Parks Equipment		90,000						30,000	30,000
8 Ton Dump Truck 4 x 2		19,000							19,000
Ball Field Grooming Machine		87,000							87,000
Large Area Mower									
<b>PUBLIC WORKS</b>									
Equipment/Repair		90,000					20,000		20,000
* Asphalt Recycler									90,000
Compactor & Structure @ Transfer Station	100,000								100,000
Electrician Support Vehicle		50,000							50,000
10-Wheel Dump Truck		185,000							185,000
<b>WATER/SEWER</b>									
Building Repairs (Transm/Distrib)				25,000					25,000
Building Rep/Add (Water Filtration Upg)				60,000					60,000
Lab Equipment				7,500					7,500
River Crossing				-					-
Main Valves / Fittings				70,000					70,000
CSO Repair				-	10,000				10,000
Equipment Rehab				50,000					50,000
Equipment Replacement				80,000	75,000				155,000
Water Program				50,000					50,000
<b>TOTAL EQUIPMENT</b>	118,586	742,000	-	342,500	85,000	-	50,000	30,000	1,368,086

**CITY OF BINGHAMTON  
2012 ADOPTED BUDGET**

**CITY OF BINGHAMTON 2012 CAPITAL IMPROVEMENTS PLAN**

**SOURCES OF FUNDING**

PROJECT/DEPARTMENT	2012 BAN	CHIPS	Water Fund	Sewer Fund	Parking Ramp Fund	Sale of Equipment	General Fund	TOTAL COST
<b>EQUIPMENT</b>								
<b>POLICE</b>								
Police Cars (2)	44,000							44,000
Equipment/Repair						10,000		10,000
<b>FIRE</b>								
Equipment/Repair						20,000		20,000
75' Platform Ladder Truck	708,000							708,000
<b>PARKING RAMPS</b>								
1/2 Ton Truck w/ plow & salt spreader	32,000							32,000
<b>PARKS</b>								
Parks Equipment							30,000	30,000
Medium Duty Truck w/ Chipper body	64,000							64,000
5-Ton 4x4 dump truck w/ plow	54,500							54,500
1-Ton Dump Truck w/ plow	49,500							49,500
4-Wheel Dr Compact Tractor w/ cab & plow	25,000							25,000
<b>PUBLIC WORKS</b>								
Equipment/Repair						20,000		20,000
City Hall Generator	150,000							150,000
International 7500 4x2 w/ Plow & Salt	135,000							135,000
International 4300 4x4 w/ Plow & Salt	129,000							129,000
International 7300 SFA 4x2 w/ Body Pkg	128,000							128,000
4x4 Pickup Parts Runner	-							-
Ford F-550 4x4 Dump Plow	58,560							58,560
Small Paving Roller	-							-
Myers Snow Plows for F-550 (5)	25,000							25,000
Replace 1999 Jeeps (2)	-							-
* Transfer Trailer	70,000							70,000



### Quote Summary

**Prepared For:**

City Of Binghamton Purchasing Purchasing  
38 Hawley St  
Binghamton, NY 13901

**Prepared By:**

Scott Wiedemann  
Five Star Equipment, Inc.  
1653 Ny Rt. 11  
Kirkwood, NY 13795  
Phone: 607-775-2006  
Mobile: 607-343-7221  
wiedemannscott@fse-i.com

**Quote Id:** 9607721  
**Created On:** 30 April 2014  
**Last Modified On:** 05 May 2014  
**Expiration Date:** 30 May 2014

Equipment Summary	Selling Price	Qty	Extended
JOHN DEERE 624K LOADER	\$ 164,956.00 X	1 =	\$ 164,956.00
<b>Equipment Total</b>			<b>\$ 164,956.00</b>

### Quote Summary

Equipment Total	\$ 164,956.00
SubTotal	\$ 164,956.00
Total	\$ 164,956.00
Down Payment	(0.00)
Rental Applied	(0.00)
<b>Balance Due</b>	<b>\$ 164,956.00</b>

Salesperson : X \_\_\_\_\_

Accepted By : X \_\_\_\_\_

# Selling Equipment



Quote Id: 9607721

Customer: CITY OF BINGHAMTON PURCHASING PURCHASING

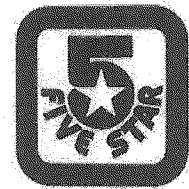
## JOHN DEERE 624K LOADER

Hours:

Stock Number:

Code	Description	Qty
7650T	624K LOADER	1
Standard Options - Per Unit		
0810	624K Standard Gathering Group	1
0924	John Deere PowerTech PVS 6.8L meets EPA FT4 and EU Stage IV Emissions (186 Net Peak hp)	1
1010	624K Loader	1
1110	4-Speed Transmission	1
1215	130 amp Alternator	1
1330	Engine Muffler with Chrome Exhaust Stack	1
1410	Air Intake system without Precleaner Engine	1
1510	Standard Fan Drive	1
1610	Standard Fuel Filter & Water Separator	1
1700	JDLINK Ultimate Cellular for the Americas, excluding Costa Rica	1
1910	Greased Steering Cylinder Joints	1
2010	Z-BAR with Standard Greased Pin Joints	1
2120	Steering Wheel Only	1
2230	Premium Heated, Leather/Fabric, High- Wide Back with Head Rest Extension, Air Suspension Seat with Conventional Left Arm Rest	1
2432	3 Function -- Joystick with FNR and 3rd Function Auxiliary Control Lever	1
2510	Ride Control	1
2605	English Labels and Decals	1
2708	24 Volt to 12 Volt - 8 Amp Converter	1
2850	Embedded Payload Scale (EPS)	1
3046	Front Hydraulically Locking Differential and Rear Conventional Differential Axles	1
3120	Manual Axle Differential Lock	1
4412	20.5R25 L2 Single Star VUT Bridgestone Radial Tires w/ 3 pc. Rims	1
5530	Front Fenders	1

# Selling Equipment



Quote Id: 9607721

Customer: CITY OF BINGHAMTON PURCHASING PURCHASING

5610	Left Side Steps	1
7110	Halogen Work and Drive Lights	1
8210	Cast Hitch	1
8320	Heated Outside Mirrors	1
8422	ROPS Quiet Cab with Air Conditioning	1
8450	Cab with Air A/C Charge	1
8560	Z-BAR Hydraulic Attachment Coupler	1
8850	3.5 Cu. Yd. (2.7 Cu. M.) GP Coupler Bucket with Bolt-on Cutting Edge	1
9015	Engine Block Heater	1
9043	Environmental Drains and Sampling Ports	1
9105	AM/FM/WB Radio	1
9125	Single Beacon Bracket	1
9140	5.0 lbs. multi purpose (ABC) Dry Chemical Fire Extinguisher	1
9420	Transmission Side Frame Guards	1
9430	Bottom Guards	1
9520	License Plate Bracket and Light	1
Other Charges		
	Freight	1
	Setup	1



# Legislative Branch

RL Number:

14-130

Date Submitted:

9/16/19

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

*Requests for Legislation (RLs) may be submitted to the City Clerk's Office for consideration at City Council Work Sessions. RLs generated from within City Hall departments must be submitted to the Mayor, Comptroller and Corporation Counsel for review before submission. RLs generated by citizens may be submitted directly to the City Clerk's Office.*

### Applicant Information

Request submitted by: Gary R. Holmes, P.E.

Title/Department: Commissioner/Public Works

Contact Information: grholmes@cityofbinghamton.com

### RL Information

Proposed Title: Professional Service Contract with GHD for the design services for the restoration and rehabilitation of the BJCSTP. The total fee is \$1,266,000.

Budget line

Suggested Content:

### Additional Information




Does this RL concern grant funding? Yes ☒ No ☐ (EFC 0% interest)

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☒

Is additional information related to the RL attached? Yes ☐ No ☐

Is RL related to previously adopted legislation? Yes ☐ No ☐

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s):

OFFICE USE ONLY	
Mayor:	
Comptroller:	
Corporation Counsel:	
Finance <input type="checkbox"/>	Planning <input type="checkbox"/> MPA <input type="checkbox"/> PW/Parks <input type="checkbox"/> Employees <input type="checkbox"/> Rules/Special Studies <input type="checkbox"/>





## STATEMENT OF SERVICES

### I. PROJECT UNDERSTANDING

The Binghamton – Johnson City Joint Sewage Treatment Plant (BJCJSTP) is a 35 million gallon per day (MGD) wastewater treatment facility that is jointly owned by the City of Binghamton and the Village of Johnson City and managed by the Binghamton – Johnson City Joint Sewage Board (BJCJSB).

On May 16, 2011, the west wall of Carbonaceous Biological Aerated Filter (C-BAF) Cells 1 thru 4 collapsed while the filters were operating. All C-BAFs were taken out of service following this collapse; the Nitrification BAFs (N-BAFs) and Denitrification BAFs (DN-BAFs) remained in operation. In September 2011, significant flooding associated with Tropical Storm Lee inundated the BJCJSTP and key equipment throughout the entire facility was damaged resulting in a total loss of treatment. Major damage was sustained to process mechanical, electrical, instrumentation and HVAC components throughout the BJCJSTP, including significant damage to the BAF Facilities.

Much of the BJCJSTP has been inoperable or performing poorly since May 2011, due to the C-BAF wall failure, Tropical Storm Lees flood damage, and general age/wear of process equipment. Accordingly, an Order on Consent was negotiated between the City of Binghamton, the Village of Johnson City, the BJCJSB and the NYSDEC to develop a plan to restore treatment operations at the BJCJSTP. The Order on Consent requires that construction be complete by April 1, 2017. Compliance with the discharge limits in the SPDES Permit is required by August 1, 2017.

The BAF system originally constructed at the BJCJSTP is the Infilco Degremont, Inc BIOFOR™ Biological Aerated Filtration System. This technology is no longer a viable option due to the ongoing litigation from the wall failure. A similar technology that has known successful installation is Kruger's BIOSTYR® System. It is anticipated that Kruger will pilot this technology at the plant, and GHD will interface with the pilot to obtain design information. GHD will also need to interface with Griffiths Engineering related to the construction of the flood wall.

GHD Consulting Services Inc. submitted a response to the Request for Qualifications. GHD's response proposed that GHD, J.L. Richards and Associates Limited, and other subconsultant (as needed) would together provide the services required in the Request for Qualifications as one team (Project Team). GHD shall award JL Richards subcontracts and others as needed, and these subcontracts are intended to include applicable provisions of this Agreement, between GHD and City of Binghamton.

### II. GOALS OF PROJECT

- A. Provide a functioning automated plant using a BAF system that can be modified to fit the current plant configurations with minimal modifications especially in the tank configuration to the extent agreed practical by GHD and City.
- B. Investigate processes at the plant to access their current operating condition. For processes upstream of the BAF evaluate their impact on the BAF, for processes downstream of the BAF evaluate the impact of the BAF on these processes.

- C. Meet the NYSDEC consent order deadline. This may include concurrent design and construction which will have to be carefully integrated to meet the objectives. This may include pre-purchase of long lead time equipment. A Critical Path Method (CPM) Schedule is provided as part of this Statement of Services. This CPM schedule will be updated throughout the project.
- D. Routing of piping, placement of equipment, access to equipment and maintenance of equipment shall be optimized for ease of maintenance and operation of the plant, such shall be considered by GHD in the design.
- E. Use the lasted energy efficient systems where ever possible, and on approvable from the City.
- F. Where ever possible utilize data from the pilot program, fully scale pilot programming, data from similar plants to insure that the system proposed will work and be easy to operate.
- G. In the interim period, optimize the primary treatment system, and rehabilitate/construct a portion of the N cells for full scale pilot testing to achieve a higher quality effluent. Upon approval from the City, other processes maybe optimized in the interim period.
- H. Utilize past studies and reports and drawings as warranted. However all past findings and calculations pertain to this project need to be verified including vendors claims and information on the construction and performance of their systems.

### III. STATEMENT OF SERVICES

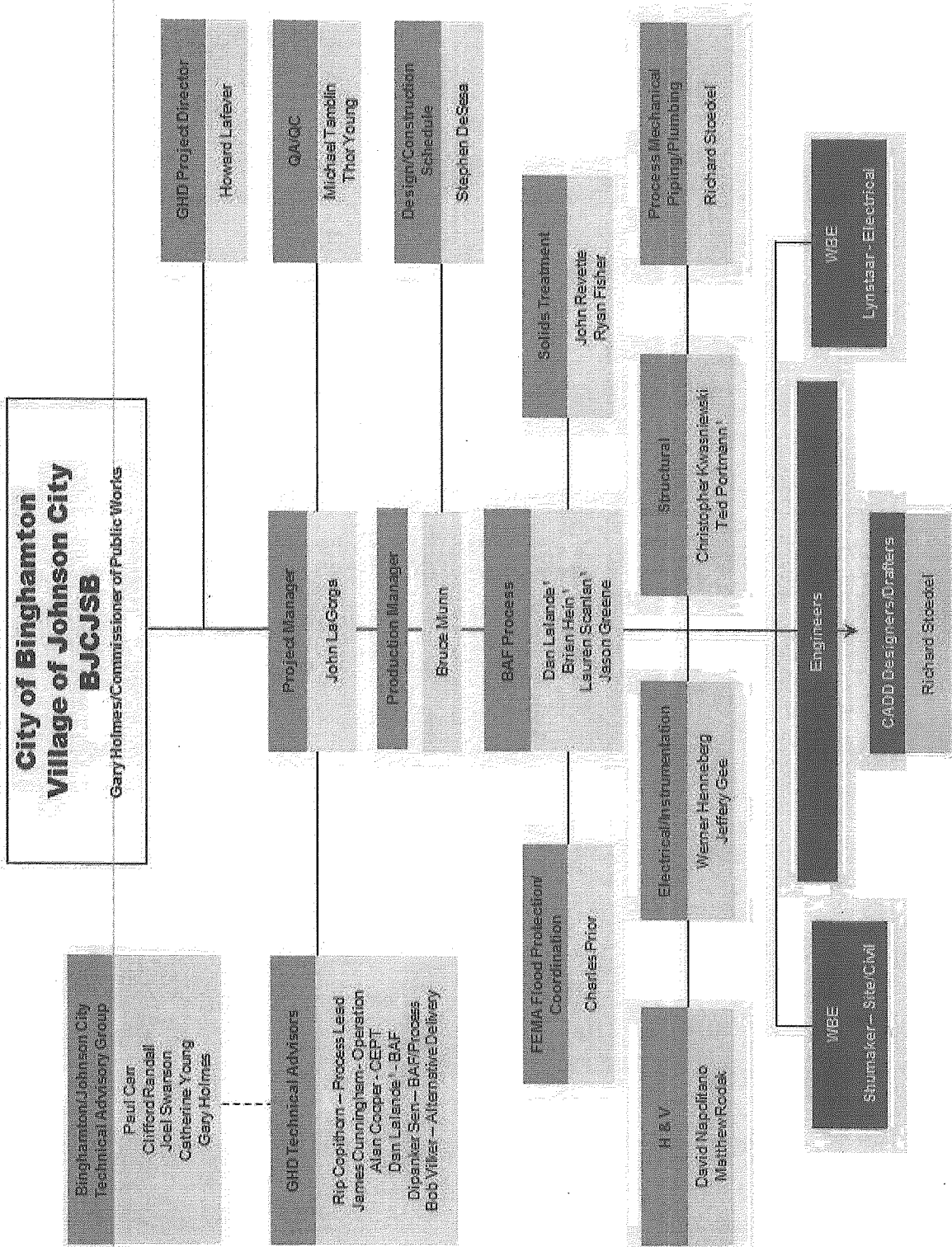
- A. The services to be performed by the Project Team under this Agreement shall be set forth in individual work orders ("Work Order"), incorporated herein by reference.
- B. Upon the request of City of Binghamton, GHD, on behalf of the Project Team, shall prepare a Work Order containing a Fee Schedule with a Not-to-Exceed Limit, Detailed Scope of Work, Estimated Reimbursable Expenses, and a proposed schedule for the scope of work ("Project Schedule"). It is the intent that the initial work orders will be based on critical components of the plant that will take the most effort to develop.

The initial work orders will include those items previously identified as required such as demolition of the compost facility, modifications to primary settling tanks, flood damage rehabilitation, and flood protection wall. The initial work orders will include close coordination with the design engineers and FERMA officials for the construction of the flood wall. The previous contract for plant improvements included components of the flood wall that are required to make the flood wall system functional. These included but were not limited to electrical supply to the pump stations, relocation of certain facilities and standby generation for the entire plant. It is anticipated that most work orders will be done concurrently.

- C. Upon mutual agreement of the parties, the Work Order shall be finalized and executed by the parties. The effective date of the work order will be as set forth in the individual Work Order. Changes to the Work Order shall be made in writing and signed by both parties.
- D. Future work orders will be based on the findings and results of the work performed under the initial work orders. The goal is to define the entire scope of the project as quickly as possible.
- E. GHD and the City of Binghamton acknowledge that TIME IS OF THE ESSENCE for each Work Order that has a Project Schedule based on a deadline imposed by the Consent Order.
- F. GHD and JL Richards are both engineering consultants and are partnered for this project. JL Richards will work as a sub-consultant to GHD and all terms and conditions of the Agreement will apply to JL Richards. The organization chart describes this partnership.
- G. JL Richards offers BAF experience including but not limited to wastewater treatment plants in Kingston and Cornwall, Ontario. JL Richards will actively participate in this project as it relates to the preliminary and final design of the BAF system. An organizational chart identifying key individuals is provided as part of this Statement of Services. GHD intends to keep the key individuals on the team unless circumstances out of their control occur (change in employment, illness etc.). It is understood that the City also reserves the right to request additional staff or expertise be added to the team or to reassign a team member upon mutual agreement.
- H. The lines of communication between the City and GHD Project's Team will be through Gary Holmes (City Commissioner of Public Works) and John LaGorga GHD's Project Manager. The organization chart describes this line of communication. This line of communication can be changed upon mutual agreement.

#### IV. ORGANIZATION CHART

ORGANIZATION CHART



Note 1: Engineers from JL Richards



**VI. COMPENSATION**

- A. As set forth in the Agreement.
- B. Each Work Order shall have a Rate Table by Personnel Classification. Each Work Order shall also have a Fee Schedule that includes labor hours, rate and labor fee and estimated reimbursable expenses.
- C. Payment to GHD shall be made by City of Binghamton upon receipt of GHD's monthly invoice. If the City identifies an item in the invoice which appears to be in error, the City may withhold the amount in question, pay the balance of the invoiced amount, and provide GHD with a statement concerning the questioned item within 60 calendar days after receipt of the invoice. The questioned item will be re-invoiced if subsequently substantiated or found in accordance with this Agreement. Alternately, the City may pay the full amount of the invoiced amount, provide a statement of the questioned item, and adjustment, if appropriate, will be made in the next subsequent invoice submitted by GHD.



# Work Order-01

## BAF Replacement Alternatives Analysis

### I. DESCRIPTION

The purpose of this Work Order (Work Order-01) is to provide engineering services for the evaluation and analysis of potential BAF replacement alternatives. The goal of the upgrade is to provide a BAF treatment system with adequate treatment capacity to accommodate the original design flows and loads established for the original BAF upgrade in the 2000s. This work includes analysis and development of recommendations for the C-BAFs, N-BAFs, DN BAFs, and ancillary systems, such as BAF backwash treatment, treatment of return flow streams, scum removal, fine screening, secondary influent pump station, and related electrical, mechanical (HVAC), and plumbing systems.

### II. SCOPE OF SERVICES

A. Facilitate a task kickoff meeting with representatives of the Owner to review:

- Review of scope, schedule, and deliverables
- Review proposed BAF upgrade alternatives
- Design considerations
- Data needs
- Previous reports
- Regulatory correspondence

During this meeting, GHD team members will conduct a site visit and review BJCJSTP facilities and current operations.

B. Obtain electronic copies of historical plant data from the BJCJSTP for the evaluation of flows and loads to the treatment plant, primary treatment performance, and BAF treatment performance for the period of 2009 to present. Supplemental testing will be completed as required for characterization of the influent wastewater for BioWin Modeling to be completed. From this data, the Basis of Design for influent flows, loads, and characteristics will be updated. Primary treatment performance and BAF treatment performance will also be summarized.

C. Complete Condition assessment of individual BAF system components and prepare a technical memorandum summarizing the following:

- Structural components
- Wastewater process piping
- Aeration piping
- Aeration blowers
- BAF media
- Electrical
- Mechanical (HVAC)
- Plumbing

D. Complete review of existing Kruger BAF pilot study results and new pilot data to be collected at BJCJSTP. Obtain and review previous BAF pilot test reports conducted by Kruger at the Kingston, Ontario WWTP including available data on the new Kruger "Duo Process" media. The test data will be used in BioWin modeling and in development of preliminary BAF unit process sizing criteria. Coordinate with representatives of Kruger for pilot testing to be



## Work Order-01

### BAF Replacement Alternatives Analysis

completed at BJCJSTP. Complete review of new pilot data as it becomes available. BJC Pilot data will be used to confirm the preliminary BAF design criteria.

- E. Conduct Technical Meeting with Kruger and GHD team members to review wastewater flow and load Basis of Design, BAF equipment condition assessment, initial pilot test results, and to identify and prescreen BAF replacement alternatives for detailed evaluation. This workshop will also consider wet weather peak flow requirements/limitations, primary treatment performance/ recommendations, BAF influent screening requirements, impact and treatment of return flows, and impact on sludge treatment requirements. During this meeting, recommendations will be developed for conversion of existing N cells to Kruger Biostyr for full scale pilot testing. Prepare and distribute meeting minutes.
- F. Conduct site visit with design team members to the Kingston, Ontario WWTP for detailed review of the BAF system.
- G. Coordinate with Project Team working on Work Order-02 Headworks and Primary Clarifier Design regarding enhanced primary treatment, scum removal, and wet weather peak flow treatment.
- H. Conduct Workshop No. 1 with representatives of the Owner, GHD, and JL Richards to review influent basis of design for upgrading BJCJSTP, condition assessment, initial pilot results, and the BAF replacement alternatives recommended for detailed evaluation. Prepare and distribute meeting minutes.
- I. Complete evaluation of up to three (3) BAF replacement alternatives (to be completed by JL Richards and GHD). It is anticipated that alternatives will be variations of the following potential alternatives:
  - Convert all eight (8) C-BAF cells, eight (8) N-BAF cells and four (4) denitrification BAFs from IDI to Kruger.
  - Implementation of the Duo Process with Alternative 1 above.
  - Conversion of C-BAF cells to operate as pre-anoxic BAFs with internal recycle.

Alternatives evaluation shall include:

- BioWin process modeling and evaluation of loadings and predicted effluent quality
- Development of mass balance
- Hydraulics evaluation
- Integration of Kruger pilot testing results
- Total Project Costs estimates
- Operation and maintenance cost estimates
- Aeration requirements
- Screening requirements
- Backwash supply and treatment requirements
- Scum removal requirements

Prepare a technical memorandum summarizing the findings from evaluation of the BAF treatment alternatives. Provide recommendations for BAF system replacement and requirements for influent screening, scum removal, and backwash treatment.





# Work Order-01

## BAF Replacement Alternatives Analysis

- J. Conduct Workshop No. 2 with the representatives of the Owner to review and discuss the finding of the BAF system evaluations and recommendations.
- K. Develop recommendations for screening systems for the selected BAF system replacement alternative. Recommendations will be provided for influent screening and intermediate screening (between BAF stages as required). Recommendations will be developed to mitigate screen plugging and bio fouling and other operational issues.
- L. Complete evaluation of the secondary influent pumping station for adequate wet well capacity, pumping capacity, and operational issues. Develop recommended improvements.
- M. Evaluate treatment of return flows and impact on sludge treatment based on selected BAF replacement alternative. Evaluate alternatives and develop recommendations for BAF backwash treatment. Evaluate alternatives and develop recommendations for treatment of return flows, such as centrate and digester supernatant. Evaluate impact of BAF solids production and return flow treatment on sludge treatment (anaerobic digestion and lime stabilization) and dewatering requirements at the BJCJSTP.
- N. Prepare Preliminary Design Report to summarize evaluations and recommendations for BAF Replacement, BAF influent screening, scum removal, treatment of return flows, secondary influent pump station, and sludge treatment impacts. Basis of Design summary will include equipment size, type, and general operating characteristics for BAF treatment systems, backwash treatment, return flow treatment, secondary influent pumping station, influent, wastewater and BAF screening, and ancillary systems (electrical, mechanical and plumbing).
- O. Conduct a meeting with representatives of the Owner to review the Preliminary Design Report. Prepare and distribute meeting minutes. Following receipt of comments, revise and finalize the Preliminary Design Report.

Recommendations will be included for conversion of existing N-Cells to Kruger "Bio Styr" for full scale pilot testing.
- P. Submit the Preliminary Design Report to NYSDEC for review. Attend NYSDEC review meeting with representatives of Owner. Respond to NYSDEC comments to obtain approval.
- Q. Develop Work Order for preparation of Final Design Documents for implementation of the BAF replacement recommendations.

### III. DELIVERABLES

- A. Meeting agendas and meeting minutes for:
  - Kick-off Meeting
  - Technical Session
  - Workshop No. 1
  - Workshop No. 2
  - Preliminary Design Report Review Meeting (with Owner)
  - NYSDEC Meeting
- B. BAF Replacement Analysis Technical Memo.



# Work Order-01

## BAF Replacement Alternatives Analysis

- C. Preliminary Design Report.
- D. Final Design Work Order.

#### IV. SCHEDULE

Task	Completion Date
Kick-Off Meeting	September 2014
Technical Session	September 2014
Workshop No. 1	September 2014
Workshop No. 2	October 2014
Submit Preliminary Design Report	November 2014
Workshop No. 3	November 2014
Submit Preliminary Design Report to NYSDEC	November 2014
NYSDEC Meeting	November 2014

#### V. COMPENSATION

- A. The Owner will be billed for actual labor hours charged at the billing rates contained in Attachment A, plus direct project expenses (e.g., identifiable reproduction costs, shipping charges). The compensation for the Scope of Services outlined in Section II is estimated to be \$595,000, as indicated in the Fee Schedule in Table 1.
- B. Payments for the work will be due monthly on the basis of statements submitted by GHD Consulting Services Inc. for the work performed during the period.
- C. Additional services beyond the Scope of Services will be considered extra work and will necessitate additional compensation.

#### VI. STANDARD TERMS AND CONDITIONS

The services described above will be completed as Work Order-01 under the Terms and Conditions of the Agreement dated September 3, 2014 between GHD Consulting Services Inc. and the City of Binghamton.

#### VII. NEW YORK CLEAN WATER STATE REVOLVING FUND CONTRACTING REQUIREMENTS

GHD Consulting Services Inc. will comply with the applicable provisions of "Required Terms for Project Contracts and Subcontracts" as defined in the NY State Revolving Fund Bid Packet for Non-construction Contracts and Service Providers, as prepared by the New York State Environmental Facilities Corporation. Refer to Attachment B.



# Work Order-01

## BAF Replacement Alternatives Analysis

This Work Order is duly executed between Consultant and Client by signature or City Resolution (Attachment C). Upon execution of this Work Order, Consultant is authorized to proceed with the work.

CONSULTANT:

CLIENT:

**GHD CONSULTING SERVICES INC.**

**CITY OF BINGHAMTON**

By: \_\_\_\_\_  
Michael E. Tamblin, P.E.

By: \_\_\_\_\_

Title: \_\_\_\_\_  
Principal

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

# Woi

## BAF Replacement Altern

### BAF Alternatives Analysis and Preliminary Design

#### Fee Estimate

Meetings and Site Visit	Prep for Preliminary Design	IDI to Kruger evaluation	Workshops 1 and 2	BAF Alternative Analysis	Secondary Influent Pumping Station	Return Solids Analysis	Design (preliminary)	Design (preliminary) Review	Management	Total Hrs	Billing Rate
16	50	32	32	6	6	28	12	24		206	\$220.00
16										16	\$200.00
32	72	36	32	12	12	20	16	24		256	\$180.00
16	30	150	24		24		24	24	120	412	\$160.00
8	108	64								180	\$150.00
										0	\$140.00
										0	\$130.00
	54	124	32	24		108	24	32		406	\$120.00
	184	140		12	60	108	40			544	\$110.00
										0	\$100.00
										0	\$110.00
	32	16		8	8		12			76	\$140.00
										0	\$110.00
		40		12	12			24		88	\$100.00
										0	\$85.00
										0	\$70.00
										0	\$65.00
										0	\$90.00
										0	\$60.00
4	24	24	8	8	8	8	28	8		120	\$70.00
16	76	108	16	4		4	4	16		0	\$190.00
16	54	72				4	4	16		244	\$185.00
16	70	80								166	\$185.00
16	78	328	16				12			166	\$160.00
16	102	418	16				18			450	\$140.00
		100								570	\$120.00
		40								100	\$110.00
										40	\$70.00
\$30,120.00	\$136,250.00	\$241,300.00	\$28,160.00	\$11,300.00	\$16,800.00	\$36,640.00	\$25,600.00	\$26,160.00	\$19,200.00	4040	
\$400.00	\$6,000.00	\$6,500.00	\$1,000.00	\$0.00	\$0.00	\$0.00	\$1,000.00	\$300.00	\$500.00		



# Work Order-01

## BAF Replacement Alternatives Analysis

### ATTACHMENT A RATE SCHEDULE

#### 1.1 GHD CONSULTING SERVICES HOURLY RATES

CLIENT shall pay Compensation for labor based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

Labor Category	Hourly Rate
Project Director	\$220.00
Senior Technical Advisor	\$200.00
Technical Advisor	\$180.00
Senior Project Manager	\$160.00
Senior Engineer	\$150.00
Project Manager	\$140.00
Project Engineer II	\$130.00
Project Engineer I	\$120.00
Engineer or Scientist II	\$110.00
Engineer or Scientist I	\$100.00
Architect	\$110.00
Managing Designer	\$140.00
Senior Designer	\$110.00
Designer	\$100.00
Senior Drafter	\$85.00
Drafter	\$70.00
Technician	\$65.00
Construction Project Representative	\$90.00
Field Technician	\$60.00
Secretarial/Word Processing	\$70.00

#### 1.2 JL RICHARDS HOURLY RATES

CLIENT shall pay Compensation for labor based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

Labor Category	Hourly Rate
Project Director	\$190.00
Technical Advisor	\$185.00
Senior Project Manager	\$185.00
Senior Engineer	\$160.00
Project Manager	\$140.00
Project Engineer	\$120.00
Designer-Drafter	\$110.00
Secretarial/Word Processing	\$70.00



# **Work Order-01**

## **BAF Replacement Alternatives Analysis**

### **1.3 Non-salary expenses and outside services attributable to the Project**

CLIENT shall pay Compensation for expenses based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

- 1.3.1 Actual receipted cost of accommodations (not to exceed \$120 US per night)
- 1.3.2 A per diem for meals and other expenses \$45 US.
- 1.3.3 Mileage calculated at the federal reimbursement rate established by the U.S. General Services Administration for privately owned vehicles in effect on the date of the occurrence;
- 1.3.4 The identifiable costs of reproduction, printing, and binding and postage and shipping applicable to the Project;
- 1.3.5 The actual cost of outside services and subcontractors;
- 1.3.6 Actual receipted cost of field equipment rental supplied by a vendor for use on the Project;
- 1.3.7 The actual cost of permits and fees required for the project and paid by CONSULTANT;
- 1.3.8 The actual cost for additional insurance required by the Owner in excess of CONSULTANT's normal coverage's or limits;
- 1.3.9 The actual cost of premiums paid on overtime worked.



# Work Order-02

## Headworks and Primary Clarifier Upgrade Design

### I. PROJECT UNDERSTANDING

Performance of BAF systems, such as used at the BJCJSTP, requires effective headworks and primary treatment for proper operation and performance.

BJCJSTP currently utilizes mechanically cleaned bars (with ¾-inch openings) and vortex grit chambers for headworks. The bar screen rakes do not effectively remove the debris from the bars and the vortex grit chambers are now considered older technology.

BJCJSTP currently utilizes chemically enhanced primary treatment (CEPT) for improved primary treatment removal. However, for a variety of reasons, the CEPT process is not working effectively. It is our understanding that the inefficiency may be caused by multiple factors, such as:

- Inefficient flow distribution and inefficient chemical mixing and coagulation upstream of the primary settling tanks.
- Anaerobic conditions in the primary settling tanks that cause the conversion of ferric iron to soluble ferrous iron and decrease the efficiency of the CEPT process.
- Primary Settling Tanks 7-10 are constructed in reverse of typical designs. The solids hoppers are located at the effluent end of these tanks instead of the influent end. This configuration may promote washout of solids, especially during high flow periods. The effluent channels are perforated.
- Primary clarifier sludge removal is pumped intermittently as the pumps cycle through the tanks, which could allow the sludge blanket to become too thick and become septic. However, as a general rule the operators maintain a thin sludge blanket.
- Scum carry over in the primary clarifier effluent has also been observed.

The purpose of this Work Order (Work Order-02) is to provide design services for the upgrade of the headworks and primary clarifiers. The goal of the upgrade is to furnish headworks and primary clarifiers that provide a level of performance consistent with performance goals set forth in the preliminary design.

### II. SCOPE OF SERVICES

A. Facilitate a project kickoff meeting to review:

- Project vision and critical success factors
- Project scope and schedule
- Design considerations
- Data needs



## Work Order-02

### Headworks and Primary Clarifier Upgrade Design

- B. Develop and submit Work Plan for Full Operation of BJCJSTP to NYSDEC. The Work Plan will be submitted to and approved by the Representatives of Owner before submittal to NYSDEC. It is anticipated that there will be one set of review comments from the Representatives of Owner.
- C. Develop and submit Interim Operations Strategy for the BJCJSTP to NYSDEC. The Strategy will be submitted to and approved by the Representatives of Owner before submittal to NYSDEC. It is anticipated that there will be one set of review comments from the Representatives of Owner.
- D. Obtain and review (1) record drawings; (2) past performance data; and (3) past reports of the BJCJSTP headworks and primary clarifiers, including but not limited to the C&S optimization drawings and report, the Black & Veatch evaluation report, the Savin (John Esler) evaluation report, Hampton Roads Sanitation District grit process evaluation, Heart of the Valley Metropolitan Sewerage District, Kaukauna, Wisconsin Actiflo primary treatment process and BioStyr BAF STP. Complete a site visit to Heart of the Valley Metropolitan Sewerage District, Kaukauna, Wisconsin.
- E. Prepare a flow schematic based on the existing BJCJSTP headworks and primary clarifiers.
- F. Coordinate with Project Team working on Work Order-01 BAF Alternative Analysis and Preliminary Design to establish performance goals for headworks and primary clarifiers.
- G. Perform field testing for primary clarifiers and distribution boxes, including:
- Dissolved oxygen sampling to observe anoxic conditions
  - Flow measurements to observe flow split between primary clarifiers
- Prepare a work plan that describes the procedures. Prepare a memorandum that summarizes the findings.
- H. Perform CFD modeling of primary clarifiers and distribution boxes. Use the data from the Savin (John Esler) evaluation report to calibrate the primary clarifier portion of the model, and use the GHD field testing data to calibrate the distribution box portion of the model. Once calibrated use the model to evaluate modifications to the influent configuration and effluent launders, and flow distribution box configuration, three scenarios each.
- I. Coordinate with Pilot Project being performed by Kruger.
- J. Headworks evaluation based on findings from review of past information. Provide recommendations for headworks upgrades based on the findings. Summarize findings and recommendations in a Technical Memorandum. Headwork screens alternatives will include two different types of screens with different screen angles and two different types of debris removal systems. It is assumed that the same equipment will be used for the Binghamton and Johnson City influents and that building modifications will be needed. For headworks grit removal, the alternatives will include aerated grit chambers and stacked tray grit chamber.





## Work Order-02

### Headworks and Primary Clarifier Upgrade Design

- K. Primary Clarifier evaluation based on findings from review of past drawings and reports, field testing, CFD modeling results, and Pilot Project by Kruger results. The evaluation will consider average and peak flow rates and returned solids flows and loads. Current, site-specific data that includes a mixture of raw sewage and returned solids is not available, so data from Kingston and Cornwall, Ontario, that includes a mixture of raw municipal sewage and returns from anaerobic digestion, dewatering and BAF cells will be considered. Provide recommendations for primary clarifier upgrades based on the findings. Summarize findings and recommendations in a Technical Memorandum. Primary treatment alternatives that will be considered include:
- Improved flow distribution
  - Improved chemical mixing
  - Use of aeration for continued use of ferric chloride
  - Chemical coagulation/flocculation addition of primary settling tank baffles
  - Alternative chemical use such as alum, poly aluminum chloride, etc. Any change of chemical will consider the impacts on effluent limits, anaerobic digester process, and dewatering process. O&M and costs impacts of chemical changes will be considered.
  - Modifications to Primary Settling Tanks 1-10, as needed
- L. Ballasted flocculation evaluation based on findings from case studies as documented in Water Environment Federation journals and proceedings. Evaluate the Kruger "Actiflo" for (1) replacing the entire primary clarifier primary treatment system, and (2) of using ballasted sedimentation to treat only the excess combined flows during stormwater runoff events. The alternatives of using Actiflo for all flows or peak flows only will be coordinated with and compared to the primary clarifier alternatives (Task K) and to the BAF side-stream alternatives (WO-01). The alternative of using Actiflo for all flows will be summarized in the Task K Technical Memorandum. The alternative of using Actiflo for peak flows only will be summarized in the Prepare Preliminary Design Report for WO-01, Task M.
- M. Prepare a Preliminary Design Report to confirm equipment size, type, and general operating characteristics. The design is anticipated to include (Actiflo may be a peak flow option, but it is anticipated that it would not be practical for all flows):
- Influent screens with modifications to the building(s) with consideration of balancing flows from the Binghamton and Johnson City sides
  - Stacked tray grit chambers
  - Equal flow distribution through weir modifications
  - New chemical mixers
  - Pre-aeration equipment
  - Primary settling tank baffles



## Work Order-02

### Headworks and Primary Clarifier Upgrade Design

- Reconfigure solids collection for tanks 1-10, as needed
  - Scum collection and removal equipment
- N. Review the Preliminary Design Report with the Representatives of Owner.
- O. Submit the Preliminary Design Report to NYSDEC for review. Respond to one set of NYSDEC comments to obtain approval. Responses will be approved by the Representatives of Owner before submittal to NYSDEC.
- P. Provide a final design. Progress all components of the preliminary design (prepared during Work Order-02) to 100% design. There will be one bid package for this work, which may include other work from other Work Orders. The bid package will contain multiple prime contracts. Prime contracts will be consistent with Wick's Law as applicable (i.e., General, Electrical, HVAC, and Plumbing).
- Q. The following design tasks will be performed by the Project Team:
1. Structural and architectural improvements as necessary to existing facilities, and structural and architectural design for new facilities.
  2. Electrical and instrumentation design for all modified or new facilities.
  3. Plumbing design for all modified or new facilities.
  4. Heating and ventilating design for all modified or new facilities.
- R. Provide two (2) interim submittals (plans and specifications) to the Representatives of Owner at the 60% and 90% stages for review and comment by the District.
1. 60% documents will include outline specifications and detailed drawings depicting approved comments from the preliminary design.
  2. 90% documents will include detailed general and technical specifications, and construction drawings including specific construction details.
- S. Finalized 100% documents will be submitted to NYSDEC for review, comment, and approval. Coordinate and facilitate meetings with NYSDEC. Incorporate NYSDEC comments as necessary, as approved by Representatives of Owner.
- T. Bid Phase Services
1. Provide 10 sets of bidding documents per contract.
  2. Provide one pdf version of bidding documents per contract
  3. Attend and facilitate one (1) pre-bid meeting per contract.



## Work Order-02

### Headworks and Primary Clarifier Upgrade Design

4. Prepare and issue necessary addenda based upon regulatory agency or contractor questions or comments.
  5. Attend one (1) bid opening per contract.
  6. For each contract, review bids, prepare a tabulation of bids, and provide the Representatives of Owner with a recommendation of award to the lowest responsible bidder.
- U. Project Management – This task allows for the routine management, administration, and coordination of the work efforts for the design activities. Included in this task is the appropriate coordination with the Project Team and the Representatives of Owner.

#### III. KEY PERSONNEL

Representative of Owner	Engineering Team
Gary Holmes	John LaGorga
Cathy Young	Bruce Munn
	Alan Cooper
	John Revette
	Alissa Diminich
	Howard LaFever

#### IV. SCHEDULE

Task	Completion Date
Kick-Off Meeting	September 2014
Work Plans for Full Operation of BJCJSTP and Interim Operations	September 2014
Preliminary Design Preparation Work	September 2014
Preliminary Design	October 2014
Final Design	December 2014
Bid Services	March 2015

#### V. COMPENSATION

- A. The Owner of Binghamton will be billed for actual labor hours charged at the billing rates contained in Attachment A, plus direct project expenses (e.g., identifiable reproduction costs, shipping charges). The compensation for the Scope of Services outlined in Section II is estimated to be \$359,000, as indicated in the Fee Schedule in Table 1.



## Work Order-02

### Headworks and Primary Clarifier Upgrade Design

- B. Payments for the work will be due monthly on the basis of statements submitted by GHD Consulting Services Inc. for the work performed during the period.
- C. Additional services beyond the Scope of Services will be considered extra work and will necessitate additional compensation.

#### VI. STANDARD TERMS AND CONDITIONS

The services described above will be completed as Work Order-02 under the Terms and Conditions of the Agreement dated August 22, 2014 between GHD Consulting Services Inc. and the City of Binghamton.

#### VII. NEW YORK CLEAN WATER STATE REVOLVING FUND CONTRACTING REQUIREMENTS

GHD Consulting Services Inc. will comply with the applicable provisions of "Required Terms for Project Contracts and Subcontracts" as defined in the NY State Revolving Fund Bid Packet for Non-construction Contracts and Service Providers as prepared by the New York State Environmental Facilities Corporation. Refer to Attachment B.

This Work Order is duly executed between Consultant and Client by signature or City Resolution (Attachment C). Upon execution of this Work Order, Consultant is authorized to proceed with the work.

CONSULTANT:

**GHD CONSULTING SERVICES INC.**

By: \_\_\_\_\_  
Michael E. Tamblin, P.E.

Title: \_\_\_\_\_  
Principal

Date: \_\_\_\_\_

CLIENT:

**CITY OF BINGHAMTON**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Headworks and Primary Clarifier Upgrade Design

Fee Estimate

Tasks A & T	Tasks B & C	Tasks D thru I	Tasks J & K	Tasks O thru R	Task S		Total Hrs	Bill R
Project Management								
16	16	24	16	16	4		92	\$22
		120					120	\$21
	20	20	20	20			80	\$18
	20	20	32	32	8		312	\$18
		160	40	40			240	\$18
		136					136	\$14
							0	\$13
	90	40	80		40		250	\$12
							0	\$11
	120	120	120		40		400	\$11
							0	\$11
			45	45	8		98	\$14
	40						40	\$11
			80	120			200	\$11
							0	\$8
			80	240			320	\$7
		160	40	120			320	\$6
							0	\$9
							0	\$6
40	40		16	16	16		128	\$7
\$38,320.00	\$40,320.00	\$106,320.00	\$63,460.00	\$62,250.00	\$13,200.00	\$0.00	2736	
\$1,500.00	\$0.00	\$3,500.00	\$500.00	\$500.00	\$500.00	\$0.00		
\$0.00	\$100.00	\$100.00	\$500.00	\$500.00	\$5,000.00	\$0.00		
\$0.00	\$0.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$0.00		
\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00	\$0.00		



# Work Order-02

## Headworks and Primary Clarifier Upgrade Design

### ATTACHMENT A RATE SCHEDULE

#### 1.0 GHD CONSULTING SERVICES, INC.

#### 1.1 Hourly Rates

CLIENT shall pay Compensation for labor based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

Labor Category	Hourly Rate
Project Director	\$220.00
Senior Technical Advisor	\$200.00
Technical Advisor	\$180.00
Senior Project Manager	\$160.00
Senior Engineer	\$150.00
Project Manager	\$140.00
Project Engineer II	\$130.00
Project Engineer I	\$120.00
Engineer or Scientist II	\$110.00
Engineer or Scientist I	\$100.00
Architect	\$110.00
Managing Designer	\$140.00
Senior Designer	\$110.00
Designer	\$100.00
Senior Drafter	\$85.00
Drafter	\$70.00
Technician	\$65.00
Construction Project Representative	\$90.00
Field Technician	\$60.00
Secretarial/Word Processing	\$70.00

#### 1.2 Non-Salary Expenses and Outside Services Attributable to the Project

CLIENT shall pay Compensation for expenses based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

- 1.2.1 Actual receipted cost of accommodations (not to exceed \$120 US per night)
- 1.2.2 A per diem for meals and other expenses \$45 US.
- 1.2.3 Mileage calculated at the federal reimbursement rate established by the U.S. General Services Administration for privately owned vehicles in effect on the date of the occurrence;
- 1.2.4 The identifiable costs of reproduction, printing, and binding and postage and shipping applicable to the Project;
- 1.2.5 The actual cost of outside services and subcontractors;
- 1.2.6 Actual receipted cost of field equipment rental supplied by a vendor for use on the Project;
- 1.2.7 The actual cost of permits and fees required for the project and paid by CONSULTANT;
- 1.2.8 The actual cost for additional insurance required by the Owner in excess of CONSULTANT's normal coverage's or limits;
- 1.2.9 The actual cost of premiums paid on overtime worked.



# Work Order-03

## Flood Damage Rehabilitation Design

### I. PROJECT UNDERSTANDING

The September 2011 Tropical Storm Lee flood caused significant damage within the BAF Facility and plant-wide. A flood damage assessment was performed by Savin immediately following the 2011 flood to determine the extent of the damage and to determine an order of magnitude cost for the repair and/or replacement of the damaged equipment. The flood damage assessment and related projects is now under the management of FEMA.

Plant personnel have been working since the 2011 flood to repair flood-damaged equipment and restore treatment operations in the non-BAF areas of the plant. While the vast majority of these systems and equipment are back in service, items remain that require permanent repairs to address flood-related damage and to maintain the reliability of the treatment system.

The scope of this work order includes:

- Headhouse Area
- Primary Sludge Pump Stations
- Sludge Thickener Area
- Backup Generator and Switch Gear

The scope of work does NOT include previous repairs already made by plant personnel or repairs that are scheduled to be completed prior to this work order. There are also areas where flood damage occurred, but flood rehabilitation will be performed under separate work orders. This is because the damaged equipment may change in size and type due to process change. These areas include (1) Methanol Storage Area; (2) Backwash Pump Station; (3) Secondary Influent Pump Station; (4) Backwash Waste Pump Station; and (5) Anaerobic Digester Complex.

The purpose of this Work Order (Work Order-03) is to provide design services for the rehabilitation of flood damaged equipment and to furnish equipment that provides a level of performance consistent with pre-flood operations.

### II. SCOPE OF SERVICES

A. Facilitate a project kickoff meeting to review:

- Project vision and critical success factors
- Project scope and schedule
- Design considerations
- Data needs

B. Confirm and validate Savin Preliminary Design related to flood damage rehabilitation for the following areas:

- Headhouse Area
- Primary Sludge Pump Station East



# Work Order-03

## Flood Damage Rehabilitation Design

- Primary Sludge Pump Station West
  - Sludge Thickener Area
  - Backup Generator and Switch Gear
- C. Prepare a Preliminary Design Report to confirm equipment size, type, and general operating characteristics. The design is anticipated to include:

### 1. Headhouse Area

**Table 1**  
**Process Rehabilitation for Headhouse Area**

Equipment	Size/Rating	Repair/Replacement	Quantity
• Sluice Gate and Frame (Influent and Effluent)	48"	Inspect and replace	2

**Table 2**  
**H&V Rehabilitation for Headhouse Area**

Equipment	Action	Quantity
Inline Fan	Replace flooded fan in kind with new motor operated damper and controls	1
Ductwork	Clean associated ductwork (interior)	-

**Table 3**  
**Plumbing Rehabilitation for Headhouse Area**

Equipment	Size/Rating	Repair/Replacement	Quantity
Potable Water Pipe Support	6", 175 PSI	Inspect and replace	1
Potable Water Magmeter	6"	Replace Magmeter	1
Potable Water Pipe Insulation	6"	Replace	60





# Work Order-03

## Flood Damage Rehabilitation Design

### 2. Primary Sludge Pump Station East

Table 4  
Process Rehabilitation for Primary Sludge Pump Station East

Equipment	Size/Rating	Repair/Replacement	Quantity
Plunger Pumps	120 GPM, 10 HP	Replace pump and reducer bearings and seals	2

### 3. Primary Sludge Pump Station West

Table 5  
Process Rehabilitation for Primary Sludge Pump Station West

Equipment	Size/Rating	Repair/Replacement	Quantity
Elutriant Pumps	1000 GPM, 15 HP	Replace bearings and seals; replace one motor	2
Gate Valve	12"	Clean, lubricate shaft and confirm operations	1
Gate Valve	14"	Clean, lubricate shaft and confirm operations	1
Gate Valve	16"	Clean, lubricate shaft and confirm operations	1
Gate Valve	18"	Clean, lubricate shaft and confirm operations	1
Butterfly Valve	48"	Clean, lubricate shaft and confirm operations	2
Plug Valve	14"	Clean, lubricate shaft and confirm operations	4

Table 6  
Electrical Rehabilitation for Primary Sludge Pump Station West

Equipment	Action	Quantity
MCC-2 and MCC-3	Replace and locate above the flood line by elevating the structures within the existing electrical room onto mezzanines, or by adding a second story to the structure	2

Table 7  
H&V Rehabilitation for Primary Sludge Pump Station West

Equipment	Action	Quantity
HV Unit's Thermostat	Replace	1
Ductwork	Clean existing exhaust ductwork	-



# Work Order-03

## Flood Damage Rehabilitation Design

### 4. Sludge Thickener Area

**Table 8**  
**Electric Rehabilitation for Sludge Thickener #1 Pumping Station**

Equipment	Action	Quantity
Thickened Sludge Pump Motor	Test/repair	1

**Table 9**  
**Electrical Rehabilitation for Sludge Thickener #2 Pumping Station**

Equipment	Action	Quantity
Odor Control Fan Motors	Test/Repair	4

**Table 10**  
**H&V Rehabilitation for Sludge Thickener Area**

Equipment	Action	Quantity
Ductwork	Clean existing supply and exhaust ductwork	-

### 5. Backup Generator and Switch Gear

A new backup generator and switch gear with connection to the existing electrical system will be designed. The Savin preliminary design will be verified and used as a base. The power requirements will change from the Savin preliminary design because of changes in the BJCJSTP processes. This design will be coordinated with WO-01 BAF Replacement Alternatives Analysis and WO-02 Headworks and Primary Clarifier Upgrade Design.

- D. Review the Preliminary Design Report with the Representatives of Owner.
- E. Provide a final design. Progress all components of the preliminary design (prepared during Work Order-03) to 100% design. There will be one bid package for this work, which may include other work from other Work Orders. The bid package will contain multiple prime contracts. Prime contracts will be consistent with Wick's Law as applicable (i.e., General, Electrical, HVAC, and Plumbing).
- F. The following design tasks will be performed by the Project Team:
  - 1. Structural and architectural improvements as necessary to existing facilities, and structural and architectural design for new facilities.
  - 2. Electrical and instrumentation design for all modified or new facilities.
  - 3. Plumbing design for all modified or new facilities.



## Work Order-03

### Flood Damage Rehabilitation Design

4. Heating and ventilating design for all modified or new facilities.
- G. Provide two (2) interim submittals (plans and specifications) to the Representatives of Owner at the 60% and 90% stages for review and comment by the District.
  1. 60% documents will include outline specifications and detailed drawings depicting approved comments from the preliminary design.
  2. 90% documents will include detailed general and technical specifications and construction drawings, including specific construction details.
- H. Finalized 100% documents will be submitted to NYSDEC for review, comment, and approval. Coordinate and facilitate meetings with NYSDEC. Incorporate NYSDEC comments as necessary.
- I. Bid Phase Services
  1. Provide 10 sets of bidding documents per contract.
  2. Provide one pdf version of bidding documents per contract.
  3. Attend and facilitate one (1) pre-bid meeting per contract.
  4. Prepare and issue necessary addenda based upon regulatory agency or contractor questions or comments.
  5. Attend one (1) bid opening per contract.
  6. For each contract, review bids, prepare a tabulation of bids, and provide the Representatives of Owner with a recommendation of award to the lowest responsible bidder.
- J. Project Management – This task allows for the routine management, administration, and coordination of the work efforts for the design activities. Included in this task is the appropriate coordination with the Project Team and the Representatives of Owner.

### III. KEY PERSONNEL

Representative of Owner	Engineering Team
Gary Holmes	John LaGorga
Cathy Young	Charles Prior
	Werner Henerberg
	Tanner Dewolf
	Christopher Kwasniewski
	Howard LaFever



## Work Order-03

### Flood Damage Rehabilitation Design

#### IV. SCHEDULE

Tasks	Completion Date
Kick-Off Meeting	September 2014
Preliminary Design Preparation Work	September 2014
Preliminary Design	October 2014
Final Design	December 2014
Bid Services	March 2015

#### V. COMPENSATION

- A. The Owner will be billed for actual labor hours charged at the billing rates contained in Attachment A, plus direct project expenses (e.g., identifiable reproduction costs, shipping charges). The compensation for the Scope of Services outlined in Section II is estimated to be \$175,000, as indicated in the Fee Schedule in Table 1.
- B. Payments for the work will be due monthly on the basis of statements submitted by GHD Consulting Services Inc. for the work performed during the period.
- C. Additional services beyond the Scope of Services will be considered extra work and will necessitate additional compensation.

#### VI. STANDARD TERMS AND CONDITIONS

The services described above will be completed as Work Order-03 under the Terms and Conditions of the Agreement dated September 3, 2014 between GHD Consulting Services Inc. and the City of Binghamton.

#### VII. NEW YORK CLEAN WATER STATE REVOLVING FUND CONTRACTING REQUIREMENTS

GHD Consulting Services Inc. will comply with the applicable provisions of "Required Terms for Project Contracts and Subcontracts" as defined in the NY State Revolving Fund Bid Packet for Non-construction Contracts and Service Providers, as prepared by the New York State Environmental Facilities Corporation. Refer to Attachment B.

This Work Order is duly executed between Consultant and Client by signature or City Resolution (Attachment C). Upon execution of this Work Order, Consultant is authorized to proceed with the work.



# Work Order-03

## Flood Damage Rehabilitation Design

CONSULTANT:

GHD CONSULTING SERVICES INC.

CLIENT:

CITY OF BINGHAMTON

By:

Michael E. Tamblin, P.E.

By:

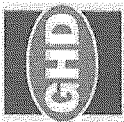
Title:

Principal

Title:

Date:

Date:



# Work Order-03

## Flood Damage Rehabilitation Design

WORK ORDER NO. - 3

Flood Rehabilitation Design

August 29, 2014

### Fee Estimate

TABLE 1

Description	Project Management	Prep for Preliminary Design	Preliminary Design Flood Damage	Final Design Flood Damage	Preliminary and Final Design Generator	Bid Services	Total Hrs	Billing Rate	Total Cost	Subtotals
<b>GHD Consulting Services</b>										
Project Director	8	8	8	8	8	4	44	\$220.00	\$9,680.00	
Senior Technical Advisor		8	8	8			24	\$200.00	\$4,800.00	
Technical Advisor		16	16	16	8		56	\$180.00	\$10,080.00	
Senior Project Manager	20	12	8	8	8	8	64	\$160.00	\$10,240.00	
Senior Engineer		40	8	8	180		236	\$150.00	\$35,400.00	
Project Manager							0	\$140.00	\$0.00	
Project Engineer II					80		80	\$130.00	\$10,400.00	
Project Engineer I	20	20	20	20		8	58	\$120.00	\$8,760.00	
Engineer/Scientist II							0	\$110.00	\$0.00	
Engineer/Scientist I	40	40	40	80		40	200	\$100.00	\$20,000.00	
Architect							0	\$110.00	\$0.00	
Managing Designer			20	20		4	44	\$140.00	\$6,160.00	
Senior Designer							0	\$110.00	\$0.00	
Designer			20	80	240		340	\$100.00	\$34,000.00	
Senior Drafter							0	\$85.00	\$0.00	
Drafter			20	80	120		220	\$70.00	\$15,400.00	
Technician							0	\$55.00	\$0.00	
Construction Project Representative							0	\$90.00	\$0.00	
Field Technician	8		8	12	8	12	48	\$60.00	\$2,880.00	
Secretarial/Word Processing								\$70.00	\$0.00	
<b>Subtotal Labor</b>	<b>\$5,520.00</b>	<b>\$20,560.00</b>	<b>\$21,880.00</b>	<b>\$36,360.00</b>	<b>\$74,840.00</b>	<b>\$9,520.00</b>	<b>1424</b>			<b>\$167,680.00</b>
<b>Direct Expenses</b>										
Travel	\$1,000.00	\$300.00	\$300.00	\$300.00	\$300.00	\$0.00			\$2,200.00	
Reproduction/Plotting	\$0.00	\$100.00	\$200.00	\$200.00	\$4,000.00	\$0.00			\$4,500.00	
Office Expenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	
Subcontractors	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	
<b>Subtotal Disbursements</b>	<b>\$1,000.00</b>	<b>\$400.00</b>	<b>\$500.00</b>	<b>\$500.00</b>	<b>\$4,300.00</b>	<b>\$0.00</b>				<b>\$6,700.00</b>
<b>PROJECT TOTAL</b>	<b>\$6,520.00</b>	<b>\$20,960.00</b>	<b>\$22,380.00</b>	<b>\$36,860.00</b>	<b>\$79,140.00</b>	<b>\$9,520.00</b>				<b>\$174,380.00</b>
<b>ESTIMATED COMPENSATION</b>										<b>\$175,000.00</b>



# Work Order-03

## Flood Damage Rehabilitation Design

### ATTACHMENT A RATE SCHEDULE

#### 1.0 GHD CONSULTING SERVICES, INC.

##### 1.1 Hourly Rates

CLIENT shall pay Compensation for labor based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

Labor Category	Hourly Rate
Project Director	\$220.00
Senior Technical Advisor	\$200.00
Technical Advisor	\$180.00
Senior Project Manager	\$160.00
Senior Engineer	\$150.00
Project Manager	\$140.00
Project Engineer II	\$130.00
Project Engineer I	\$120.00
Engineer or Scientist II	\$110.00
Engineer or Scientist I	\$100.00
Architect	\$110.00
Managing Designer	\$140.00
Senior Designer	\$110.00
Designer	\$100.00
Senior Drafter	\$85.00
Drafter	\$70.00
Technician	\$65.00
Construction Project Representative	\$90.00
Field Technician	\$60.00
Secretarial/Word Processing	\$70.00

##### 1.2 Non-salary expenses and outside services attributable to the Project

CLIENT shall pay Compensation for expenses based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

- 1.2.1 Actual receipted cost of accommodations (not to exceed \$120 US per night)
- 1.2.2 A per diem for meals and other expenses \$45 US.
- 1.2.3 Mileage calculated at the federal reimbursement rate established by the U.S. General Services Administration for privately owned vehicles in effect on the date of the occurrence;
- 1.2.4 The identifiable costs of reproduction, printing, and binding and postage and shipping applicable to the Project;
- 1.2.5 The actual cost of outside services and subcontractors;
- 1.2.6 Actual receipted cost of field equipment rental supplied by a vendor for use on the Project;
- 1.2.7 The actual cost of permits and fees required for the project and paid by CONSULTANT;
- 1.2.8 The actual cost for additional insurance required by the Owner in excess of CONSULTANT's normal coverage's or limits;
- 1.2.9 The actual cost of premiums paid on overtime worked.



# **Work Order-04**

## **Compost Facility Demolition Design**

### **I. PROJECT UNDERSTANDING**

The existing compost facility located on site at the BJCJSTP is no longer in operation and has been out of service for a number of years. As a result, this facility is no longer needed and currently occupies a large portion of the site. This space is now needed for other uses.

The purpose of this Work Order (Work Order-04) is to provide design services for the demolition of the compost facility. The goal of the upgrade is to remove the existing structures associated with the compost facility to make this space available for use for another purpose.

### **II. SCOPE OF SERVICES**

- A. Facilitate a task kickoff meeting with representatives of the Owner to review:
  - Review of scope, schedule, and deliverables
  - Design considerations
  - Data needs
- B. Conduct a site survey of the compost facility to determine the existing conditions.
- C. Perform a hazardous materials survey of the compost facility, including lead, asbestos, PCBs, and mercury.
- D. Obtain and review (1) record drawings; and (2) recent draft demolition drawings of the BJCJSTP compost facility.
- E. Evaluate findings from review of past drawings and field testing. Utilize information from these past documents for incorporation in the compost facility demolition.
- F. Prepare a preliminary design to confirm scope and details associated with the proposed compost facility demolition work. Provide a Preliminary Design Memorandum. The design is assumed to include:
  - 1. Cleaning of the compost vessels for insurance inspection purposes before demolition begins.
  - 2. Specialized demolition requirements, as necessary, for materials identified from the hazardous materials survey.
  - 3. Demolition and clearing of the compost facility area of the site for future reuse.
- G. Prepare a final design, which includes: site/civil, structural, mechanical, and electrical demolition work as necessary to existing facilities. There will be one set of bid documents prepared for this work, which may include other work from other Work Orders. The





## Work Order-04

### Compost Facility Demolition Design

construction contract will contain multiple prime contracts. Prime contracts will be consistent with Wick's Law as applicable (i.e., General, Electrical, HVAC, and Plumbing).

- H. Provide one (1) interim submittal (plans and specifications) to the Representatives of Owner at the 90% stage for review and comment by the Representatives of Owner.
  - 1. 90% documents will include detailed general and technical specifications and construction drawings, including specific construction details.
- I. Finalized 100% documents will be submitted to NYSDEC for review, comment, and approval. Coordinate and facilitate meetings with NYSDEC. Incorporate NYSDEC comments as necessary.
- J. Bid Phase Services
  - 1. Provide 10 sets of bidding documents per contract.
  - 2. Provide one pdf file of bidding documents per contract.
  - 3. Attend and facilitate one (1) pre-bid meeting per contract.
  - 4. Prepare and issue necessary addenda based upon regulatory agency or contractor questions or comments.
  - 5. Attend one (1) bid opening per contract.
  - 6. For each contract, review bids, prepare a tabulation of bids, and provide the Representatives of Owner with a recommendation of award to the lowest responsible bidder.
- K. Project Management – This task allows for the routine management, administration, and coordination of the work efforts for the design activities. Included in this task is the appropriate coordination with the Project Team and the Representatives of Owner.

### III. KEY PERSONNEL

Representative of Owner	Engineering Team
Gary Holmes	John LaGorga
Cathy Young	Damian Venetti
	Donald Sorbella
	Howard LaFever



# **Work Order-04**

## **Compost Facility Demolition Design**

### **IV. SCHEDULE**

<b>Tasks</b>	<b>Completion Date</b>
Kick-off Meeting	September 2014
Preliminary Design	October 2014
Final Design	November 2014
Bid Services	March 2015

### **V. COMPENSATION**

- A. The Owner will be billed for actual labor hours charged at the billing rates contained in Attachment A, plus direct project expenses (e.g., identifiable reproduction costs, shipping charges). The compensation for the Scope of Services outlined in Section II is estimated to be \$48,000, as indicated in the Fee Schedule in Table 1.
- B. Payments for the work will be due monthly on the basis of statements submitted by GHD Consulting Services Inc. for the work performed during the period.
- C. Additional services beyond the Scope of Services will be considered extra work and will necessitate additional compensation.

### **VI. STANDARD TERMS AND CONDITIONS**

The services described above will be completed as Work Order-04 under the Terms and Conditions of the Agreement dated September 3, 2014 between GHD Consulting Services Inc. and the City of Binghamton.

### **VII. NEW YORK CLEAN WATER STATE REVOLVING FUND CONTRACTING REQUIREMENTS**

GHD Consulting Services Inc. will comply with the applicable provisions of "Required Terms for Project Contracts and Subcontracts" as defined in the NY State Revolving Fund Bid Packet for Non-construction Contracts and Service Providers, as prepared by the New York State Environmental Facilities Corporation. Refer to Attachment B.

This Work Order is duly executed between Consultant and Client by signature or City Resolution (Attachment C). Upon execution of this Work Order, Consultant is authorized to proceed with the work.



# Work Order-04

## Compost Facility Demolition Design

CONSULTANT:

**GHD CONSULTING SERVICES INC.**

By: \_\_\_\_\_

Michael E. Tamblin, P.E.

Title: \_\_\_\_\_

Principal

Date: \_\_\_\_\_

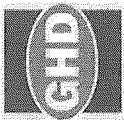
CLIENT:

**CITY OF BINGHAMTON**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



# Work Order-04

## Compost Facility Demolition Design

WORK ORDER NO. 4

Compost Facility Demolition Design

August 19, 2014

Fee  
Estimate

TABLE 1

Description	Project Management	Prep for Preliminary Design	Preliminary Design	Final Design	Bid Services	Total Hrs	Billing Rate	Total Cost	Subtotals
<b>GHD Consulting Services</b>									
Project Director		2	2	2	4	10	\$220.00	\$2,200.00	
Senior Technical Advisor						0	\$200.00	\$0.00	
Technical Advisor		2	4	4		10	\$180.00	\$1,800.00	
Senior Project Manager	24				4	28	\$160.00	\$4,480.00	
Senior Engineer						0	\$150.00	\$0.00	
Project Manager						0	\$140.00	\$0.00	
Project Engineer II						0	\$130.00	\$0.00	
Project Engineer I		8	24	24	20	76	\$120.00	\$9,120.00	
Engineer/Scientist II				40	20	0	\$110.00	\$0.00	
Engineer/Scientist I						60	\$100.00	\$6,000.00	
Architect						0	\$110.00	\$0.00	
Managing Designer			4	8	4	16	\$140.00	\$2,240.00	
Senior Designer				100		0	\$110.00	\$0.00	
Designer						100	\$100.00	\$10,000.00	
Senior Drafter						0	\$85.00	\$0.00	
Drafter						0	\$70.00	\$0.00	
Technician						0	\$65.00	\$0.00	
Construction Project Representative						0	\$90.00	\$0.00	
Field Technician			4	16	16	0	\$60.00	\$0.00	
Secretarial/Word Processing						36	\$70.00	\$2,520.00	
<b>Subtotal Labor</b>	<b>\$3,840.00</b>	<b>\$1,760.00</b>	<b>\$4,880.00</b>	<b>\$20,280.00</b>	<b>\$7,800.00</b>	<b>336</b>			<b>\$38,360.00</b>
<b>Direct Expenses</b>									
Travel		\$500.00	\$500.00	\$500.00	\$500.00			\$2,500.00	
Reproduction/Plotting								\$2,000.00	
Office Expenses								\$0.00	
Subcontractors			\$5,000.00					\$5,000.00	
<b>Subtotal Disbursements</b>	<b>\$0.00</b>	<b>\$500.00</b>	<b>\$5,500.00</b>	<b>\$500.00</b>	<b>\$500.00</b>				<b>\$9,500.00</b>
<b>PROJECT TOTAL</b>	<b>\$3,840.00</b>	<b>\$2,260.00</b>	<b>\$10,380.00</b>	<b>\$20,780.00</b>	<b>\$8,100.00</b>				<b>\$47,360.00</b>
								<b>ESTIMATED COMPENSATION</b>	<b>\$48,000.00</b>



# Work Order-04

## Compost Facility Demolition Design

### ATTACHMENT A RATE SCHEDULE

#### 1.0 GHD CONSULTING SERVICES, INC.

##### 1.1 Hourly Rates

CLIENT shall pay Compensation for labor based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

Labor Category	Hourly Rate
Project Director	\$220.00
Senior Technical Advisor	\$200.00
Technical Advisor	\$180.00
Senior Project Manager	\$160.00
Senior Engineer	\$150.00
Project Manager	\$140.00
Project Engineer II	\$130.00
Project Engineer I	\$120.00
Engineer or Scientist II	\$110.00
Engineer or Scientist I	\$100.00
Architect	\$110.00
Managing Designer	\$140.00
Senior Designer	\$110.00
Designer	\$100.00
Senior Drafter	\$85.00
Drafter	\$70.00
Technician	\$65.00
Construction Project Representative	\$90.00
Field Technician	\$60.00
Secretarial/Word Processing	\$70.00

##### 1.2 Non-salary expenses and outside services attributable to the Project

CLIENT shall pay Compensation for expenses based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

- 1.2.1 Actual receipted cost of accommodations (not to exceed \$120 US per night)
- 1.2.2 A per diem for meals and other expenses \$45 US.
- 1.2.3 Mileage calculated at the federal reimbursement rate established by the U.S. General Services Administration for privately owned vehicles in effect on the date of the occurrence;
- 1.2.4 The identifiable costs of reproduction, printing, and binding and postage and shipping applicable to the Project;
- 1.2.5 The actual cost of outside services and subcontractors;
- 1.2.6 Actual receipted cost of field equipment rental supplied by a vendor for use on the Project;
- 1.2.7 The actual cost of permits and fees required for the project and paid by CONSULTANT;
- 1.2.8 The actual cost for additional insurance required by the Owner in excess of CONSULTANT's normal coverage's or limits;
- 1.2.9 The actual cost of premiums paid on overtime worked.



# **Work Order-05**

## **Anaerobic Digester Condition Assessment and Alternatives Analysis**

### **I. DESCRIPTION**

In 2011, the existing anaerobic digesters were damaged in significant flooding at BJCJSTP. In 2013, the Joint Sewage Board retained GHD to replace-in-kind the damaged equipment. In subsequent phases of this project, GHD inspected the equipment for code compliance and operational deficiencies, but GHD was not authorized to inspect and evaluate the structural condition of the tanks. Since then, questions have been asked about the structural condition of the tanks and the severity of known and possible leaks. Questions have also been asked about the throughput capacity of the existing anaerobic digesters.

The purpose of this Work Order (Work Order-05) is to provide engineering services for the evaluation and analysis of the anaerobic digesters system. The goal of the work is to assess the physical condition of the existing digester tanks, make recommendations on repairs, and estimate the remaining useful life of the tanks. The information about the existing tankage will be compared to new tankage in an alternatives analysis, which also includes expansion of capacity. An evaluation will also be completed to incorporate anaerobic digestion technologies capable of increased solids destruction, increased digester gas/energy production and production of Class A biosolids. A recommendation will be made and the recommended alternative will be developed in a preliminary design.

### **II. SCOPE OF SERVICES**

- A. Facilitate a task kickoff meeting with representatives of the Owner to review:
  - Scope, schedule, and deliverables
  - Design considerations
  - Data needs
- B. Coordinate with Project Team working on Work Order-01 BAF Alternatives Analysis and Preliminary Design and Work Order-02 Headworks and Primary Clarifier Upgrade Design regarding solids loading analysis to understand and estimate the expected solids load that requires stabilization.
- C. Complete a condition assessment and evaluation of the digester tanks and prepare a technical memorandum summarizing our findings.

The condition assessment would entail GHD entering these digesters and noting our visual observations and performing non-destructive testing, including sounding of the concrete. Since a long-term assessment is required, GHD will evaluate the design of these digesters based on current design codes and standards. GHD's technical memorandum will summarize our findings and present recommended repairs in relation to our estimated useful life of these digesters.



## **Work Order-05**

### **Anaerobic Digester Condition Assessment and Alternatives Analysis**

- D. Identification and Screening of Alternatives – A workshop will be held to identify potential anaerobic digestion alternatives which may be considered. Alternatives will include technologies to produce Class A biosolids and Class B biosolids. Alternatives will also include recovery of methane for generation of electrical energy and recovery of heat. Technologies producing Class B biosolids will include rehabilitation and reuse of the existing anaerobic digester tankage and alternatives(s) for construction of new anaerobic digestion tankage. Consideration will be given to the construction of new egg-shaped anaerobic digester(s).

Technologies producing Class A biosolids may include thermophilic anaerobic digestion, temperature phased anaerobic digestion and two-phase anaerobic digestion. "Pre-Digestion Alternatives" may include technologies such as thermal hydrolysis, "Micro Sludge", "OpenCel" and "CellRupter".

Energy recovery alternatives will include cogeneration and heat recovery with internal combustion engine versus microturbines.

Following identification and description, alternatives will be pre-screened to select the most viable alternatives for detailed evaluation. Pre-screening will consider applicability to this project, relative capital and O&M costs, biosolids disposal cost, operational experience, site constraints, impact on wastewater process, and impact to plant operations.

On the basis of the pre-screening, three alternatives will be selected for detailed evaluation.

The results of the identification and pre-screening of alternatives will be summarized in a technical memorandum.

- E. Biosolids Reuse & Market Analysis – The end value/cost of final biosolids disposal must be estimated for completion of a present worth analysis of alternatives. For this task, existing biosolids data will be reviewed, summarized and compared to NYSDEC Part 360, regulations for disposal of Class A and Class B biosolids. GHD will contact local regional land application companies to determine realistic contracted land application costs of the BJC Class A and Class B biosolids. This cost will be compared with historical cost information for disposal of compost produced at the BJC WWTP, as well as local costs for landfill disposal of Class B biosolids. The results of the biosolids reuse and market analysis will be summarized in a technical memorandum and used in the detailed evaluation of alternatives.
- F. Detailed Evaluation of Anaerobic Digestion Alternatives – A detailed evaluation of three anaerobic digestion alternatives will be completed. The alternatives will include rehabilitation and reuse of the existing anaerobic digester facilities, construction of new digestion facilities and a Class A anaerobic digestion technology. All alternatives will include combined heat and power capabilities.

Each alternative will be provided a description and size of the required tankage and major equipment, equipment and construction costs, O&M costs, proposed site layout and advantages and disadvantages. A present worth analysis will be completed of capital costs,



## Work Order-05

### Anaerobic Digester Condition Assessment and Alternatives Analysis

yearly O&M costs, biosolids disposal costs, energy production revenue, and salvage value of tankage/equipment to determine the alternative with the lowest present worth cost.

The results of the detailed evaluation of alternatives, recommendations and summary basis of design will be provided in a technical memorandum.

- G. Conduct meeting with representatives of the Owner to review the detailed evaluation of alternatives, recommendations and basis of design. Prepare and distribute meeting minutes. Following receipt of comments, revise and finalize the technical memorandums.
- H. Develop Work Order for preparation of Final Design Documents for implementation of recommended alternative.

#### III. DELIVERABLES

- A. Kick-Off Meeting and Review Meeting Agendas and Meeting Minutes.
- B. Condition Assessment Technical Memorandum.
- C. Identification and Pre-Screening of Alternatives Memorandum.
- D. Biosolids Reuse and Market Analysis Memorandum.
- E. Detailed Evaluation of Alternatives/Basis of Design Memorandum.
- F. Final Design Work Order.

#### IV. KEY PERSONNEL

Representative of Owner	Engineering Team
Gary Holmes	John LaGorga
Cathy Young	Bruce Munn
	John Novak
	Christopher Kwasniewski
	Howard LaFever





# **Work Order-05**

## **Anaerobic Digester Condition Assessment and Alternatives Analysis**

### **V. SCHEDULE**

<b>Task</b>	<b>Completion Date</b>
Kick-Off Meeting	September 2014
Condition Assessment Site Visit	September 2014
Condition Assessment Technical Memorandum	September 2014
Identification and Pre-Screening of Alternatives Memorandum	September 2014
Biosolids Reuse and Market Analysis Memorandum	October 2014
Detailed Evaluation of Alternatives/Basis of Design Memorandum	November 2014
Review Meeting	December 2014

### **VI. COMPENSATION**

- A. The Owner will be billed for actual labor hours charged at the billing rates contained in Attachment A, plus direct project expenses (e.g., identifiable reproduction costs, shipping charges). The compensation for the Scope of Services outlined in Section II is estimated to be \$89,000, as indicated in the Fee Schedule in Table 1.
- B. Payments for the work will be due monthly on the basis of statements submitted by GHD Consulting Services Inc. for the work performed during the period.
- C. Additional services beyond the Scope of Services will be considered extra work and will necessitate additional compensation.

### **VII. STANDARD TERMS AND CONDITIONS**

The services described above will be completed as Work Order-05 under the Terms and Conditions of the Agreement dated September 3, 2014 between GHD Consulting Services Inc. and the City of Binghamton.

### **VIII. NEW YORK CLEAN WATER STATE REVOLVING FUND CONTRACTING REQUIREMENTS**

GHD Consulting Services Inc. will comply with the applicable provisions of "Required Terms for Project Contracts and Subcontracts" as defined in the NY State Revolving Fund Bid Packet for Non-construction Contracts and Service Providers, as prepared by the New York State Environmental Facilities Corporation. Refer to Attachment B.



# **Work Order-05**

## **Anaerobic Digester Condition Assessment and Alternatives Analysis**

This Work Order is duly executed between Consultant and Client by signature or City Resolution (Attachment C). Upon execution of this Work Order, Consultant is authorized to proceed with the work.

**CONSULTANT:**

**CLIENT:**

**GHD CONSULTING SERVICES INC.**

**CITY OF BINGHAMTON**

By: \_\_\_\_\_  
Michael E. Tamblin, P.E.

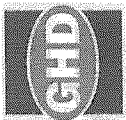
By: \_\_\_\_\_

Title: \_\_\_\_\_  
Principal

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_



# Work Order-05

## Anaerobic Digester Condition Assessment and Alternatives Analysis

WORK ORDER NO. - 5

Anaerobic Digester Alternatives Analysis

August 29, 2014

### Fee Estimate

TABLE 1

Description	Tasks A Project Management	Task C Condition Assessment	Tasks B & D Basis of Design & Alt Analysis				Total Hrs	Billing Rate	Total Cost	Subtotals
<b>GHD Consulting Services</b>										
Project Director	4	4	6				14	\$220.00	\$3,080.00	
Senior Technical Advisor		4	6				10	\$200.00	\$2,000.00	
Technical Advisor		4	120				124	\$180.00	\$22,320.00	
Senior Project Manager	20	40	40				100	\$160.00	\$16,000.00	
Senior Engineer			20				20	\$150.00	\$3,000.00	
Project Manager		100					100	\$140.00	\$14,000.00	
Project Engineer II							0	\$130.00	\$0.00	
Project Engineer I			40				40	\$120.00	\$4,800.00	
Engineer/Scientist II							0	\$110.00	\$0.00	
Engineer/Scientist I		60	40				100	\$100.00	\$10,000.00	
Architect							0	\$110.00	\$0.00	
Managing Designer							0	\$140.00	\$0.00	
Senior Designer							0	\$110.00	\$0.00	
Designer							0	\$100.00	\$0.00	
Senior Drafter							0	\$85.00	\$0.00	
Drafter							0	\$70.00	\$0.00	
Technician							0	\$65.00	\$0.00	
Construction Project Representative							0	\$90.00	\$0.00	
Field Technician							0	\$60.00	\$0.00	
Secretarial/Word Processing		8	8				16	\$70.00	\$1,120.00	
<b>Subtotal Labor</b>	<b>\$4,080.00</b>	<b>\$29,360.00</b>	<b>\$42,980.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>524</b>			<b>\$ 76,320.00</b>
<b>Direct Expenses</b>										
Travel	\$100.00	\$250.00	\$200.00	\$0.00	\$0.00	\$0.00			\$550.00	
Reproduction/Printing	\$0.00	\$0.00	\$100.00	\$0.00	\$0.00	\$0.00			\$100.00	
Office Expenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	
Subcontractors	\$0.00	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00			\$12,000.00	
<b>Subtotal Disbursements</b>	<b>\$100.00</b>	<b>\$250.00</b>	<b>\$12,300.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>				<b>\$12,650.00</b>
<b>PROJECT TOTAL</b>	<b>\$4,180.00</b>	<b>\$29,610.00</b>	<b>\$55,180.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>				<b>\$89,970.00</b>
<b>ESTIMATED COMPENSATION</b>									<b>\$89,970.00</b>	



# Work Order-05

## Anaerobic Digester Condition Assessment and Alternatives Analysis

### ATTACHMENT A RATE SCHEDULE

#### 1.0 GHD CONSULTING SERVICES, INC.

##### 1.1 Hourly Rates

CLIENT shall pay Compensation for labor based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

Labor Category	Hourly Rate
Project Director	\$220.00
Senior Technical Advisor	\$200.00
Technical Advisor	\$180.00
Senior Project Manager	\$160.00
Senior Engineer	\$150.00
Project Manager	\$140.00
Project Engineer II	\$130.00
Project Engineer I	\$120.00
Engineer or Scientist II	\$110.00
Engineer or Scientist I	\$100.00
Architect	\$110.00
Managing Designer	\$140.00
Senior Designer	\$110.00
Designer	\$100.00
Senior Drafter	\$85.00
Drafter	\$70.00
Technician	\$65.00
Construction Project Representative	\$90.00
Field Technician	\$60.00
Secretarial/Word Processing	\$70.00

##### 1.2 Non-salary expenses and outside services attributable to the Project

CLIENT shall pay Compensation for expenses based on CONSULTANT's rate schedule below. The Rate Schedule provided below shall be in effect through completion of this Work Order:

- 1.2.1 Actual receipted cost of accommodations (not to exceed \$120 US per night)
- 1.2.2 A per diem for meals and other expenses \$45 US.
- 1.2.3 Mileage calculated at the federal reimbursement rate established by the U.S. General Services Administration for privately owned vehicles in effect on the date of the occurrence;
- 1.2.4 The identifiable costs of reproduction, printing, and binding and postage and shipping applicable to the Project;
- 1.2.5 The actual cost of outside services and subcontractors;
- 1.2.6 Actual receipted cost of field equipment rental supplied by a vendor for use on the Project;
- 1.2.7 The actual cost of permits and fees required for the project and paid by CONSULTANT;
- 1.2.8 The actual cost for additional insurance required by the Owner in excess of CONSULTANT's normal coverage's or limits;
- 1.2.9 The actual cost of premiums paid on overtime worked.



# Legislative Branch

RL Number:

14-131

Date Submitted:

9/15/14

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

Requests for Legislation (RLs) may be submitted to the City Clerk's Office for consideration at City Council Work Sessions. RLs generated from within City Hall departments must be submitted to the Mayor, Comptroller and Corporation Counsel for review before submission. RLs generated by citizens may be submitted directly to the City Clerk's Office.

### Applicant Information

Request submitted by: Gary R. Holmes, P.E.

Title/Department: Acting City Engineer, Engineering Dept.

Contact Information: grholmes@cityofbinghamton.com

### RL Information

Proposed Title: Supplemental No. 2 with NYSDOT on the Riverside Dr/Beethoven Signal

Upgrade Project, PIN 9753.60, for Construction Inspection and Additional Design Work.

Suggested Content: Enter into a Supplemental No. 2 Agreement with the NYSDOT on the

Riverside Dr/Beethoven St Signal Upgrade Project, PIN 9753.60 in the amount of \$21,220 for

construction inspection and additional design work. Funding is available in budget line

H1650.525139.40914 - Traffic Signal Riverside/Beethoven. Reimbursed 80% by Federal funds and 15%

Marchiselli funds.

### Additional Information

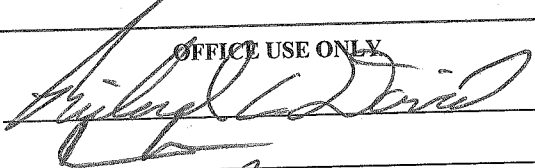


Does this RL concern grant funding? Yes ☐ No ☒

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☒

Is additional information related to the RL attached? Yes ☒ No ☐

Is RL related to previously adopted legislation? Yes ☒ No ☐

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s): R11-10

OFFICE USE ONLY	
Mayor:	
Comptroller:	
Corporation Counsel:	
Finance <input checked="" type="checkbox"/>	Planning <input type="checkbox"/> MPA <input type="checkbox"/> PW/Parks <input type="checkbox"/> Employees <input type="checkbox"/> Rules/Special Studies <input type="checkbox"/>



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
REGION NINE  
44 HAWLEY STREET  
BINGHAMTON, NEW YORK 13901-3200  
WWW.DOT.NY.GOV

JOHN R. WILLIAMS, P.E.  
REGIONAL DIRECTOR

JOAN McDONALD  
COMMISSIONER

August 27, 2014

Mr. Gary Holmes, P.E.  
Public Works Commissioner  
City of Binghamton  
38 Hawley Street  
Binghamton, NY 13901

Dear Commissioner Holmes:

RE: PIN 9753.60, D032038  
Riverside Drive/Beethoven Street Signal Upgrade  
City of Binghamton, Broome County

Enclosed for processing are five copies of Supplemental Agreement # 2 to Federal-Aid/Marchiselli-Aid Project Agreement (D032038) to perform the Preliminary Engineering/Design work. The work involves the upgrade of the traffic signal at the Riverside Drive/Beethoven Street intersection in the City of Binghamton, Broome County. This is a Locally Administered Project.

All five copies must have original signatures and all five copies must be notarized. In addition, five certified copies of the necessary City Resolution must accompany the Agreements (a sample resolution is included in the agreement). Please return all five copies to our Regional Office for further processing. A completed copy will be returned to you once the agreement has been fully executed.

The estimated cost for the Preliminary Engineering/Design work has increased from \$13,780 to \$35,000, or an increase of \$21,220. The City will be reimbursed 80% of \$35,000, or \$28,000, with Federal funds. The City will also be reimbursed 15%, up to \$2,067, of this \$35,000 cost through the State Marchiselli Program. Please refer to the footnote on page 3 of Schedule A regarding additional State Marchiselli Reimbursement.

Therefore, the necessary City Resolution must authorize an additional \$21,220 for this phase of the project.



# Legislative Branch

RL Number:

19-132

Date Submitted:

9/15/14

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

Requests for Legislation (RLs) may be submitted to the City Clerk's Office for consideration at City Council Work Sessions. RLs generated from within City Hall departments must be submitted to the Mayor, Comptroller and Corporation Counsel for review before submission. RLs generated by citizens may be submitted directly to the City Clerk's Office.

### Applicant Information

Request submitted by: Gary R. Holmes, P.E.

Title/Department: Acting City Engineer, Engineering Dept.

Contact Information: grholmes@cityofbinghamton.com

### RL Information

Proposed Title: Supplemental No. 6 with Delta Engineers on the Front St Reconstruction at  
NFSRR (PIN 9752.74) For Modifications Proposed by NYSDOT

Suggested Content: Supplemental No. 6 with Delta Engineers on the Front St. Recon at NFSRR  
(PIN 9752.74 for modifications to traffic signal at 225 Front St driveway, ROW clearance assistance, and  
to update plans for compliance with current regulations. The amount of this Supplemental No. 6 is  
\$25,239.00. Funding is available in budget line H5120.525023.51809 - Norfolk Southern

### Additional Information

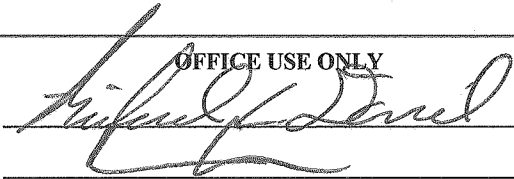


Does this RL concern grant funding? Yes ☐ No ☒

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☒

Is additional information related to the RL attached? Yes ☒ No ☐

Is RL related to previously adopted legislation? Yes ☒ No ☐

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s): R13-38

Mayor:					
Comptroller:					
Corporation Counsel:					
Finance <input checked="" type="checkbox"/>	Planning <input type="checkbox"/>	MPA <input type="checkbox"/>	PW/Parks <input type="checkbox"/>	Employees <input type="checkbox"/>	Rules/Special Studies <input type="checkbox"/>

May 16, 2014

City of Binghamton Department of Engineering  
Government Plaza  
38 Hawley Street, 3<sup>rd</sup> Floor  
Binghamton, NY 13901-3776

Attn: Philip T. Krey, PE, City Engineer

Re: PIN 9752.74  
Front Street Reconstruction at the Norfolk-Southern Railroad  
Supplemental Agreement No. 6  
Delta Project #2004.070.001 (SA6 signature page.doc)

Dear Mr. Krey:

Delta Engineers, Architects & Land Surveyors, PC proposes to provide the following extra work as described and in accordance with Attachments A, B, and C. This supplemental agreement is for modifications proposed by NYSDOT to the traffic signal on Front St at the 225 Front St. driveway (conversion to a bid alternate), revisions to the approach geometry and median along Clinton St at the Front St. intersection, ROW clearance certificate assistance, Update Plans for Compliance with Current Regulations, post-PSE changes made to the construction plans and bid documents at the request of the City. This supplemental agreement modifies the original agreement approved by City of Binghamton on March 9, 2005 and modified on February 27, 2008 (supplements 1 & 2), January 29, 2010 (supplement 3), December 30, 2011 (supplement 4), and June 17, 2013 (supplement 5) for the reference project as follows:

- Supplemental design services and direct non-salary costs in the amount of \$25,239. The Total Contract Amount will increase from \$442,056 to \$467,295.

Please sign a copy of this letter and return it to us.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Title: \_\_\_\_\_

Respectfully,  
DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS, P.C.



David L. Kennicutt, PE  
Director of Transportation Services

Encl.



## ATTACHMENT A

<b>X</b>	<b>3.1 Cost Plus Fixed Fee Method - Design</b>			
<b>ITEM</b>	<b>DESCRIPTION OF ITEMS WITHIN METHOD</b>		<b>APPLICABLE RATE/ AMOUNT OR PERCENTAGE</b>	<b>INTERIM PAYMENTS:</b>
Item I	<p>■ Actual Direct Technical Salaries, regular time plus straight time portion of overtime compensation of all employees assigned to this PROJECT on a full-time basis for all or part of the term of this Agreement, plus properly allocable partial salaries of all persons working part-time on this PROJECT.</p> <p>■ The cost of Principals', Officers' and Professional Staffs' salaries (productive time) included in Direct Technical Salaries is eligible for reimbursement if their comparable time is also charged directly to all other projects in the same manner. Otherwise, Principals' salaries are only eligible as an overhead cost, subject to the current limitations, generally established therefore by the Municipality.</p> <p>■ If, within the term of this Agreement, any direct salary rates are paid in excess of the maximums shown in Attachment C, the excess amount shall be borne by the CONSULTANT WITHOUT REIMBURSEMENT either as a direct cost or as part of the overhead allowance.</p>		<p>■ Actual costs incurred in the performance of this agreement as identified in Attachment C or otherwise approved in writing by the Municipality or its representative.</p> <p>■ Not to exceed the maximum allowable hourly rates of pay described in Attachment C of this Agreement, all subject to audit.</p> <p>■ Actual overtime premium portion of Direct Technical Salaries, all subject to audit and prior approval by the Municipality.</p>	<p>■ The CONSULTANT shall be paid in monthly progress payments based on the maximum salary rates and allowable costs incurred during the period as established in Attachment C.</p> <p>■ Bills are subject to approval of the Municipality and Municipality's Representative.</p>
Item II	Actual Direct Non-Salary Project-related Costs incurred in fulfilling the terms of this Agreement; all subject to audit.		All reimbursement for travel, meals and lodging shall be made at actual cost paid but such reimbursement shall not exceed the per diem rates established by the NY State Comptroller. All reimbursement shall not exceed the prevailing wage rates established by the NYS Department of Labor.	
Item III	Items required to be purchased for this Project not otherwise encompassed in Direct Non-salary Project-related Costs, which become the property of the Municipality at the completion of the work or at the option of the Municipality.		Salvage value	

## ATTACHMENT A

<div> <div>X</div> 3.1 Cost Plus Fixed Fee Method - Design </div>			
ITEM	DESCRIPTION OF ITEMS WITHIN METHOD	APPLICABLE RATE/ AMOUNT OR PERCENTAGE	INTERIM PAYMENTS:
Item IV	<p>■ Overhead Allowance based on actual allowable expenses incurred during the term of this Agreement, subject to audit. Submitted overhead amounts will be audited based upon the Federal Acquisition Regulations, sub-part 1-31.2 as modified by sub-part 1-31.105 ("FAR"), and applicable policies and guidelines of the Municipality, NYSDOT and FHWA.</p> <p>■ For the purpose of this Agreement, an accounting period shall be the CONSULTANT's fiscal year. An audit of the accounting records of the CONSULTANT shall be made by the Municipality for each accounting period. For monthly billing purposes, the latest available overhead percentage established by such audit shall be applied to the charges made, under Item IA of this subdivision to determine the charge to be made under this Item.</p>	<p>■ The overhead allowance shall be established as a percentage of Item IA only (Actual Direct Technical Salaries) of this ARTICLE, and shall be a FAR compliant rate initially established as 161%, in all events not to exceed 196%, subject to audit.</p>	
Item V	<p>■ Negotiated Lump Sum Fixed Fee.</p> <p>■ Payment of the Fixed Fee for the described scope of services is not subject to pre-audit and is not subject to review or modification based on cost information or unless this Agreement is formally amended or supplemented by reason of a substantial change in the scope, complexity or character of the work to be performed.</p>	<p>■ A negotiated Lump Sum Fee which in this AGREEMENT shall equal \$3,292.</p>	
Item VI	<p>The Maximum Amount Payable under this Agreement including Fixed Fees unless this agreement is formally amended or supplemented by reason of a substantial change in the scope, complexity or character of the work to be performed.</p>	<p>Maximum Amount Payable under this Method shall be \$25,239.</p>	

**Attachment A**  
**Architectural/ Engineering Consultant Agreement**  
**Project Description and Funding**

PIN: 9752.74

*Term of Agreement*  
*Ends: March 31, 2015*

BIN:

☐ Main Agreement    ☐ Amendment to Agreement [add identifying #]    ☒ Supplement to Agreement

***Phase of Project Consultant to work on:***

☒ P.E./Design    ☐ ROW Incidentals    ☐ ROW Acquisition    ☐ Construction, C/I, & C/S

Dates or term of Consultant Performance:

Start Date: August 12, 2013

Finish Date: March 31, 2015

***PROJECT DESCRIPTION:***

This project will involve the reconstruction and lowering of Front Street and Clinton Street in the vicinity of the Norfolk Southern Railroad crossing, to provide additional vertical clearance and thereby improve truck mobility and access into the City's First Ward district as well as the Central Business District. This supplement covers work required to modify the design.

Project Location:

City of Binghamton, Broome County

Consultant Work Type(s): See Attachment B for more detailed Task List.  
Final Highway Design

**MAXIMUM AMOUNT OF FUNDS FOR ALL COMPENSATION PAYABLE UNDER THIS AGREEMENT FOR THE SCOPE OF WORK DESCRIBED IN ATTACHMENT B FOR THE PROJECT DESCRIBED IN THIS ATTACHMENT A, OTHERWISE IN ACCORDANCE WITH THE CHOSEN METHOD OF COMPENSATION AND OTHER TERMS OF THIS AGREEMENT:**

\$25,239

**Footnotes:**

## **ATTACHMENT B**

### **Base Scope of Services**

**Prepared for:**

**City Of Binghamton – Department of Engineering  
City Hall  
Government Plaza  
Binghamton, NY 13901**

**Describing Services for:**

**Front Street Reconstruction at the Norfolk Southern Railroad  
PIN 9752.74**

**Supplement #6 – Address Design Modifications Proposed by  
NYSDOT, Update Plans for Compliance with Current Regulations, Assist  
with ROW Clearance Certificate, and Requested Post-PSE revisions to  
the Traffic Signal Equipment and Traffic Signal Controller**

**Original 10/14/13  
Revised 05/16/14**



## Table of Contents

	Base Task List	Pages
Section 1	General (included in base agreement)	3
Section 2	Data Collection & Analysis (included in base agreement)	3
Section 3	Preliminary Design (included in base agreement)	3
Section 4	Environmental (not used)	3
Section 5	Right-of-Way (not used)	3
Section 6	Detailed Design	3
Section 7	Advertisement, Bid Opening and Award (included in base agreement)	4
Section 8	Construction Support (included in base agreement)	4
Section 9	Construction Inspection (not used)	4
Section 10	Estimating & Technical Assumptions	5

## **Section 1 - General (included in base agreement)**

## **Section 2 - Data Collection & Analysis (included in base agreement)**

## **Section 3 – Preliminary Design (included in base agreement)**

## **Section 4 – Environmental (not used)**

## **Section 5 – Right-of-Way (not used)**

## **Section 6 - Detailed Design**

### **6.02 PSE Plan Revisions**

The **Consultant** will incorporate NYSDOT comments related to the traffic signal on Front St at the 225 Front St. driveway (conversion to a bid alternate as it is under study for permanent removal), striping revisions, and a realignment of the Clinton St. approach geometry at the Front St. intersection.

As part of this task the **Consultant** will revise the previously templated cross sections along Front St. and Clinton St. at the appropriate locations.

Additionally, the **Consultant** will revise the traffic signal equipment to reflect current **Municipality** preferences related to pole type and controller, and update the design as needed for compliance with current regulations and specifications.

The **Consultant** will prepare and submit 5 copies of the revised PSEs to the **Municipality** for distribution and final review.

### **6.03 Contract Documents**

The **Consultant** will revise as needed the complete package of bid-ready contract documents. Revisions will include alterations necessary to address the NYSDOT PSE comments pertaining to the signal at the 225 Front St. driveway and geometry / striping changes along Front St. and Clinton St at various locations, and changes related to the traffic signal pole & traffic signal controller.

The **Consultant** will submit 5 copies of the contract documents to the **Municipality** for approval and forwarding to NYSDOT/FHWA for signoff and approval to advertise.

### **6.04 Cost Estimate**

The **Consultant** will update the quantity computations and construction cost estimate for the project based on the changes listed in 6.02 and 6.03 above.

**Section 7 - Advertisement, Bid Opening and Award (included in base agreement)**

**Section 8 - Construction Support (included in base agreement)**

**Section 9 - Construction Inspection (not used)**

## **Section 10 - Estimating & Technical Assumptions**

### **10.01 Estimating Assumptions**

The following assumptions have been made for estimating purposes:

Section 9) Estimate construction will begin March 10, 2014 and will be completed by November 21, 2014.

### **10.02 Technical Assumptions (not used)**



## ATTACHMENT C

### Fee Summary

DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS, P.C.  
 Front Street Reconstruction - NS Railroad  
 9752.74  
 Design - Supplement #6 Fee

	DESIGN SERVICES	CONSTRUCTION SERVICES
Technical Labor Cost	8,409	
Technical Labor Premium Portion of overtime		
Direct Non- Salary Cost (estimated)		
Sub-Consultant Cost		
Direct Non-Salary Cost (Sub-Contractor Cost) (Estimated)		
Independent Testing Lab		
Overhead Currently Estimated at:		
161.00% Office	13,538	
131.00% Field		
Fixed Fee / Profit	3,292	
Total Estimated Cost	\$25,239	

### Salary Schedule

DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS, P.C.  
Front Street Reconstruction - NS Railroad  
9752.74  
Design - Supplement #6 Fee

JOB TITLE	CURRENT AVG. RATE	2014* MAX. RATE	CURRENT HOURLY RATE	OVERTIME CATEGORY
Principal	71.67	73.50	170.00	A
Project Manager	43.13	41.00	130.00	A
Sr. Project Engineer	35.75	45.00	110.00	A/B
Project Engineer	31.44	35.97	95.00	B
Senior Engineer	27.39	29.75	85.00	B
Engineer	24.47	26.10	75.00	B
Assistant Engineer	21.37	22.40	70.00	B
Sr. Technician	19.80	19.80	65.00	C
Technician	16.78	18.47	55.00	C
Technical Typist	16.61	17.50	55.00	C
Level 4 Inspector	43.50	43.50	95.00	C
Level 3 Inspector	32.14	36.00	80.00	C
Level 2 Inspector	22.20	25.00	60.00	C
Party Chief	37.96	37.96	85.00	A
Survey Technician	19.36	19.36	50.00	C

\* Updated maximum rates will be submitted annually, upon request

\*Prevailing Wage Rates - The difference between the required prevailing wage rate and the normal hourly rate is considered a direct cost:

#### OVERTIME POLICY

Category A - No overtime compensation.

Category B - overtime compensated at straight time rate.

Category C - overtime compensated at straight time rate x 1.50

Overtime applies to hours worked in excess of the normal working hours of 40 hours per week

# Labor Detail

Delta Eng. Arch. & Land Survey

Friday, May 16, 2014  
9:53:32 AM

Transactions for 8/12/2013 through 5/10/2014

	Date	Regular Hours	Total Ovt Hrs	Total Hours	Regular Amount	Total Ovt Amt	Total Amount
Project Number: 2004.070.001 Front Street at Norfolk Southern							
Phase Number: 00062 Address NYSDOT Out of Scope Comments							
Department: G General							
Description: 331 Gparks							
00231	9/19/2013	2.25		2.25	38.70		38.70
00231	9/20/2013	2.00		2.00	34.40		34.40
Total for 331		4.25		4.25	73.10		73.10
Description: 404 Dmcgowan							
00304	9/19/2013	2.50		2.50	39.13		39.13
McGowan, Doreen							
Copy job folders for CJM							
00304	9/20/2013	1.00		1.00	15.65		15.65
McGowan, Doreen							
Copy job folders for CJM							
Total for 404		3.50		3.50	54.78		54.78
Total for G		7.75		7.75	127.88		127.88
Department: T Transportation							
Description: 000 General							
00030	8/29/2013	.25		.25	9.41		9.41
00030	9/16/2013	1.25		1.25	51.34		51.34
00030	9/17/2013	.25		.25	10.27		10.27
* 00030	4/3/2014	.25		.25	9.75		9.75
* 00030	4/7/2014	.50		.50	19.60		19.60
* 00125	3/26/2014	2.00		2.00	57.00		57.00
* 00125	3/28/2014	.50		.50	14.25		14.25
00159	8/26/2013	6.00		6.00	215.16		215.16
* 00159	8/26/2013	2.50		2.50	89.65		89.65
00159	8/27/2013	6.25		6.25	224.20		224.20
* 00159	8/27/2013	1.50		1.50	53.79		53.79
00159	8/28/2013	5.75		5.75	206.20		206.20
* 00159	8/28/2013	1.00		1.00	35.86		35.86
00159	8/29/2013	6.00		6.00	215.16		215.16
00159	8/30/2013	1.25		1.25	44.83		44.83
00159	9/3/2013	10.00		10.00	366.92		366.92
00159	9/4/2013	5.25		5.25	192.73		192.73
00159	9/5/2013	5.00		5.00	183.55		183.55
00159	9/6/2013	6.00		6.00	220.26		220.26
00159	9/8/2013	2.50		2.50	92.30		92.30
00159	9/9/2013	3.00		3.00	110.76		110.76
00159	9/10/2013	1.00		1.00	36.92		36.92

LABOR EXPENDED -  
EXTRA WORK FOLLOWING  
PSEE SUBMISSION  
8/8/2013

Labor Detail	Transactions for 8/12/2013 through 5/10/2014						Friday, May 16, 2014 9:53:32 AM	
		Date	Regular Hours	Ovt Hrs	Total Hours	Regular Amount	Ovt Amt	Total Amount
00159	Maby, Christopher	9/12/2013	1.00		1.00	36.92		36.92
00159	Maby, Christopher	9/13/2013	.50		.50	18.46		18.46
00159	Maby, Christopher	9/16/2013	2.50		2.50	97.50		97.50
00159	Maby, Christopher	9/17/2013	2.50		2.50	97.50		97.50
00159	Maby, Christopher	9/18/2013	7.25		7.25	282.75		282.75
00159	Maby, Christopher	9/19/2013	7.25		7.25	282.75		282.75
00159	Maby, Christopher	9/20/2013	5.00		5.00	195.00		195.00
00159	Maby, Christopher	9/24/2013	2.50		2.50	97.50		97.50
00159	Maby, Christopher	9/25/2013	1.50		1.50	58.50		58.50
00159	Maby, Christopher	9/27/2013	2.00		2.00	78.00		78.00
00159	Maby, Christopher	10/3/2013	1.25		1.25	47.56		47.56
00159	Maby, Christopher	10/7/2013	8.00		8.00	312.00		312.00
00159	Maby, Christopher	10/8/2013	7.25		7.25	282.75		282.75
00159	Maby, Christopher	10/10/2013	1.25		1.25	48.75		48.75
00159	Maby, Christopher	10/15/2013	.75		.75	28.89		28.89
00159	Maby, Christopher	10/23/2013	1.00		1.00	39.00		39.00
00159	Maby, Christopher	10/28/2013	.25		.25	9.75		9.75
00159	Maby, Christopher	11/1/2013	1.00		1.00	39.00		39.00
00159	Maby, Christopher	11/18/2013	.25		.25	7.92		7.92
00159	Maby, Christopher	3/5/2014	1.00		1.00	39.60		39.60
00159	Maby, Christopher	3/6/2014	2.00		2.00	79.20		79.20
00159	Maby, Christopher	3/7/2014	.75		.75	29.70		29.70
00159	Maby, Christopher	3/12/2014	.25		.25	8.21		8.21
00159	Maby, Christopher	3/14/2014	.25		.25	8.21		8.21
00159	Maby, Christopher	3/25/2014	2.00		2.00	72.00		72.00
00159	Maby, Christopher	3/26/2014	3.50		3.50	126.00		126.00
00159	Maby, Christopher	3/27/2014	2.50		2.50	90.00		90.00
00159	Maby, Christopher	3/28/2014	4.00		4.00	144.00		144.00
00159	Maby, Christopher	4/1/2014	.50		.50	19.80		19.80
00159	Maby, Christopher	4/2/2014	3.75		3.75	148.50		148.50
00159	Maby, Christopher	4/3/2014	.75		.75	29.70		29.70
00159	Maby, Christopher	4/4/2014	.50		.50	19.80		19.80
00159	Maby, Christopher	4/9/2014	.50		.50	17.70		17.70
00159	Maby, Christopher	4/28/2014	.25		.25	9.90		9.90
00159	Maby, Christopher	4/29/2014	.25		.25	9.90		9.90
00159	Maby, Christopher	5/6/2014	1.50		1.50	56.91		56.91
00159	Maby, Christopher	5/9/2014	.75		.75	28.46		28.46
00261	Sanyshyn, Steven	8/27/2013	4.50		4.50	95.40		95.40
00261	Sanyshyn, Steven	8/28/2013	1.00		1.00	21.20		21.20
00261	Sanyshyn, Steven	9/3/2013	5.00		5.00	106.00		106.00
00261	Sanyshyn, Steven	9/4/2013	10.00		10.00	212.00		212.00
00261	Sanyshyn, Steven	9/5/2013	6.00		6.00	127.20		127.20

Labor Detail		Transactions for 8/12/2013 through 5/10/2014						Friday, May 16, 2014 9:53:32 AM	
		Date	Regular Hours	Ovt Hrs	Total Hours	Regular Amount	Ovt Amt	Total Amount	
00261	Sanyshyn, Steven	9/6/2013	2.50		2.50	53.00		53.00	
00261	Sanyshyn, Steven	9/9/2013	7.50		7.50	159.00		159.00	
00261	Sanyshyn, Steven	9/17/2013	.50		.50	10.60		10.60	
00261	Sanyshyn, Steven	9/18/2013	5.25		5.25	111.30		111.30	
00261	Sanyshyn, Steven	9/20/2013	2.00		2.00	42.40		42.40	
00261	Sanyshyn, Steven	3/6/2014	2.00		2.00	44.80		44.80	
00261	Sanyshyn, Steven	3/7/2014	.75		.75	16.80		16.80	
00261	Sanyshyn, Steven	3/19/2014	1.25		1.25	28.00		28.00	
* 00261	Sanyshyn, Steven	3/25/2014	2.00		2.00	44.80		44.80	
* 00261	Sanyshyn, Steven	3/27/2014	6.00		6.00	134.40		134.40	
* 00261	Sanyshyn, Steven	3/28/2014	2.00		2.00	44.80		44.80	
* 00261	Sanyshyn, Steven	4/9/2014	1.50		1.50	33.60		33.60	
* 00261	Sanyshyn, Steven	4/10/2014	1.50		1.50	33.60		33.60	
* 00261	Sanyshyn, Steven	4/14/2014	.50		.50	11.20		11.20	
* 00261	Sanyshyn, Steven	4/23/2014	.75		.75	16.80		16.80	
* 00261	Sanyshyn, Steven	4/28/2014	5.75		5.75	128.80		128.80	
* 00261	Sanyshyn, Steven	4/29/2014	.50		.50	11.20		11.20	
* 00261	Sanyshyn, Steven	4/30/2014	2.50		2.50	56.00		56.00	
* 00261	Sanyshyn, Steven	5/1/2014	.50		.50	11.20		11.20	
* 00261	Sanyshyn, Steven	5/6/2014	2.00		2.00	44.80		44.80	
00302	Seaman, William	8/28/2013	.50		.50	16.43		16.43	
00302	Seaman, William	8/29/2013	5.00		5.00	164.25		164.25	
00302	Seaman, William	8/30/2013	3.50		3.50	114.98		114.98	
00302	Seaman, William	9/3/2013	8.00		8.00	262.80		262.80	
00302	Seaman, William	9/4/2013	5.75		5.75	188.89		188.89	
00302	Seaman, William	9/5/2013	2.50		2.50	82.13		82.13	
00302	Seaman, William	9/6/2013	.25		.25	8.21		8.21	
* 00302	Seaman, William	3/26/2014	3.00		3.00	99.00		99.00	
00311	Logis, Nazar	9/4/2013	.50		.50	10.25		10.25	
* 00333	Carrier, Gregory	4/10/2014	1.50		1.50	32.33		32.33	
* 00368	Smith, Steven	4/29/2014	1.00		1.00	18.00		18.00	
* 00368	Smith, Steven	5/6/2014	1.50		1.50	27.00	9.00	36.00	
Total for 000			252.75		253.25	8,081.17	9.00	8,090.17	
Total for T			252.75		253.25	8,081.17	9.00	8,090.17	
Total for 00062			260.50		261.00	8,209.05	9.00	8,218.05	
Phase Number: 00068 Removal of 225 Front St Impacts									
Department: T Transportation									
Description: 000 General									
00261	Sanyshyn, Steven	8/14/2013	1.75		1.75	37.10		37.10	
00261	Sanyshyn, Steven	8/19/2013	2.00		2.00	42.40		42.40	
00261	Sanyshyn, Steven	8/20/2013	5.25		5.25	111.30		111.30	
Total for 000			9.00		9.00	190.80		190.80	

Labor Detail									
Transactions for 8/12/2013 through 5/10/2014									
Friday, May 16, 2014 9:53:32 AM									
Date	Regular Hours	Total Ovt Hrs	Total Hours	Regular Amount	Total Ovt Amt	Total Amount			
	9.00		9.00	190.80		190.80			
	9.00		9.00	190.80		190.80			
	269.50	.50	270.00	8,399.85	9.00	8,408.85			
Total for T									
Total for 00068									
Total for 2004.070.001									



# Legislative Branch

RL Number:

19-133

Date Submitted:

9/15/14

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

*Requests for Legislation (RLs) may be submitted to the City Clerk's Office for consideration at City Council Work Sessions. RLs generated from within City Hall departments must be submitted to the Mayor, Comptroller and Corporation Counsel for review before submission. RLs generated by citizens may be submitted directly to the City Clerk's Office.*

### Applicant Information

Request submitted by: Gary R. Holmes, P.E.

Title/Department: Acting City Engineer, Engineering Dept.

Contact Information: grholmes@cityofbinghamton.com

### RL Information

Proposed Title: Approving the City of Binghamton to Enter Into an Agreement for Professional Services with McFarland Johnson for Design Services on the E. Clinton St. Bridge, PIN 9753.65.

Suggested Content: The Cit of Binghamton is entering into an agreement with McFarland Johnson for Design Services on the E. Clinton St. Bridge, PIN 9753.65 in the amount of \$75,683.00. Funding for this agreement is in budget line H5120.525025.40914 - E. Clinton St. Bridge. This funding will be reimbursed 80% with Federal Funds and 15% Marchiselli Funds.

### Additional Information

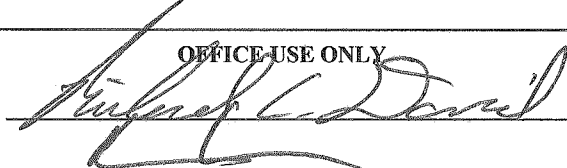


Does this RL concern grant funding? Yes ☐ No ☒

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☒

Is additional information related to the RL attached? Yes ☒ No ☐

Is RL related to previously adopted legislation? Yes ☒ No ☐

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s): R14-10

Mayor:	<u></u>				
Comptroller:	<u></u>				
Corporation Counsel:	<u></u>				
Finance <input checked="" type="checkbox"/>	Planning <input type="checkbox"/>	MPA <input type="checkbox"/>	PW/Parks <input type="checkbox"/>	Employees <input type="checkbox"/>	Rules/Special Studies <input type="checkbox"/>

## **Base Scope of Services**

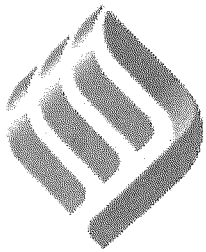
### **Prepared for:**

**City of Binghamton**  
**Department of Engineering**  
City Hall, Government Plaza  
Binghamton, NY 13901-3776

### **Describing Services for:**

PIN 9753.85, BIN 2226120  
E. Clinton Street Bridge Rehabilitation  
City of Binghamton

**8/11/14**



# **McFarland Johnson**



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## Section 1 - General

### 1.01 Project Description and Location

Project Name: Rehabilitation of the E. Clinton Street Bridge

PIN: 9753.85

**Project Description:** McFarland-Johnson, Inc. (the "**Consultant**") shall provide Design Services for the City of Binghamton (the "**Municipality**") related to the project identified above. The project consists of rehabilitating the existing bridge including expansion joint replacement and repairs to the concrete parapet, deck, sidewalk, arch, backwalls, fascias and bridge lighting. The project will include drainage improvements in the immediate approaches to the bridge.

**Project Limits:** The limits of the project extend 50 feet beyond the approach slabs at each end of the bridge for a total distance of approximately 700 feet.

**Sponsor:** City of Binghamton

### 1.02 Project Manager

The **Sponsor's** Project Manager for this project is:

Name: Philip T. Krey, PE

Phone #: 607-772-7007

Email: [ptkrey@cityofbinghamton.com](mailto:ptkrey@cityofbinghamton.com)

All correspondence to the **Sponsor** should be addressed to:

City of Binghamton  
Department of Engineering  
38 Hawley Street, 3rd Floor  
Binghamton, NY 13901-3776

The **Sponsor's** Project Manager should receive copies of all project correspondence directed other than to the **Sponsor**.

### 1.03 Project Classification

This project is a Categorical Exclusion action under USDOT Regulations, 23 CFR 771.

Classification under the New York State Environmental Quality Review Act (SEQRA) Part 617, Title 6 of the Official Compilation of Codes, Rules, and Regulations of New York State (6 NYCRR Part 617) is a Type II.

## 1.04 Categorization of Work

Project work is generally divided into the following sections:

Section 1	General
Section 2	Data Collection & Analysis
Section 3	Preliminary Design
Section 4	Environmental (Not Used)
Section 5	Right-of-Way
Section 6	Detailed Design
Section 7	Advertising, Bid Opening and Award
Section 10	Estimating & Technical Assumptions

When specifically authorized in writing to begin work the **Consultant** will render all services and furnish all materials and equipment necessary to provide the **Sponsor** with reports, plans, estimates, and other data specifically described in Sections 1, 2, 3, 5, 6, 7 and 10.

## 1.05 Project Familiarization

The **Sponsor** will provide the **Consultant** with the following information (as available):

- Approved project initiation document (Initial Project Proposal or similar documentation) indicating project type, project location, cost estimate, schedule, and fund source(s).
- Traffic data.
- Record as-built plans.
- Available project studies and reports.
- Other relevant documents pertaining to the project.
- Existing ROW Data (electronic files of ROW and Easement Maps)

The **Consultant** will become familiar with the project before starting any work. This includes a thorough review of all supplied project information and a site visit to become familiar with field conditions.

## 1.06 Meetings

The **Consultant** will prepare for and attend all meetings as directed by the **Sponsor's** Project Manager. Meetings may be held to:

- Discuss all project issues, objectives, etc. with **Sponsor** ( a "kick-off" meeting)
- Present, discuss, and receive direction on the progress and scheduling of work in this agreement.
- Present, discuss, and receive direction on project specifics.
- Discuss and resolve comments resulting from review of project documents, advisory agency review, and coordination with other agencies.
- Manage subconsultants and subcontractors.

The **Consultant** will be responsible for the preparation of all meeting minutes; the minutes will be

submitted to meeting attendees within one (1) week of the meeting date.

#### **1.07 Cost and Progress Reporting**

For the duration of this contract, the **Consultant** will prepare and submit to the **Sponsor** on a monthly basis a Progress Report in a format approved by the **Sponsor**. The Progress Report must contain the Cost Control Report. The beginning and ending dates defining the reporting period must correspond to the beginning and ending dates for billing periods, so that this reporting process can also serve to explain billing charges. (In cases where all work under this contract is officially suspended by the **Sponsor**, this task will not be performed during the suspension period).

#### **1.08 Policy and Procedures**

The design of this project will be progressed in accordance with the current version of the *NYSDOT Procedures for Locally Administered Federal Aid Projects (PLAFAP) Manual*, including the latest updates.

#### **1.09 Standards & Specifications**

The project will be designed and constructed in accordance with the current edition of the NYSDOT Standard Specifications for Construction and Materials, including all applicable revisions.

#### **1.10 Subconsultants**

The **Consultant** will be responsible for:

- Coordinating and scheduling work, including work to be performed by subconsultants.
- Technical compatibility of a subconsultant's work with the prime **Consultant's** and other subconsultants' work.

The following Subconsultants are included in the project:

Concrete coring and laboratory testing – subconsultant TBD

#### **1.11 Subcontractors**

Procurement of subcontractors must be in accordance with the requirements set forth in the *NYSDOT PLAFAP Manual*.

## **Section 2 - Data Collection & Analysis**

### **2.01 Design Survey (Not Used)**

### **2.02 Design Mapping (Not Used)**

### **2.03 Determination of Existing Conditions**

The **Consultant** will determine, obtain or provide all information needed to accurately describe in pertinent project documents the existing conditions within and adjacent to the project limits.

### **2.04 Accident Data and Analysis (Not Used)**

### **2.05 Traffic Counts**

The **Sponsor** will provide traffic count data for use by the **Consultant**.

**2.06 Capacity Analysis (Not Used)**

**2.07 Future Plans for Roadway and Coordination with Other Projects (Not Used)**

**2.08 Soils Investigations (Not Used)**

**2.09 Hydraulic Analysis (Not Used)**

**2.10 Bridges to be Rehabilitated**

**2.101 Inspection**

The **Consultant** will perform a field inspection of the bridge to determine its condition, to establish the rehabilitation work necessary, and to prepare a Level I load rating. The intent is to supplement the inspection done as part of the NYSDOT's on-going bridge inspection program, not to duplicate it.

**2.102 Bridge Deck Evaluation**

The **Consultant** will perform a bridge deck evaluation in accordance with the NYSDOT's current Bridge Deck Evaluation Procedure Manual.

**2.103 Load Rating of Existing Bridge (Not Used)**

**2.104 Fatigue Evaluation (Not Used)**

**2.11 Pavement Evaluation (Not Used)**

## **Section 3 - Preliminary Design**

### **3.01 Design Criteria (Not Used)**

The **Consultant** will identify the applicable design standards to be used for this project, and will establish project-specific design criteria.

### **3.02 Development of Alternatives (Not Used)**

### **3.03 Cost Estimates**

The **Consultant** will develop a preliminary cost estimate to be submitted with the Design Approval Document for the project.

### **3.04 Preparation of Draft Design Approval Document**

The Project is a minor bridge rehabilitation project as defined in Chapter 19.1 of the Bridge Design Manual. Based on the guidance included in EB 10-052, for minor bridge rehabilitation projects, the Design Approval Document (DAD) should be an IPP/FDR.

The **Consultant** will submit 3 copies of the draft IPP/FDR to the **Sponsor** and NYSDOT's RLPL for review. The **Sponsor** and NYSDOT will review the draft IPP/FDR and provide the **Consultant** with review comments.

### **3.05 Advisory Agency Review (Not Used)**

### **3.06 Public Information Meeting(s) and/or Public Hearing(s) (Not Used)**

### **3.07 Preparation of Final Design Approval Document (DAD)**

The **Consultant** will revise the draft IPP/FDR to incorporate comments from the **Sponsor** and NYSDOT.

The **Consultant** will submit the final IPP/FDR to the **Sponsor** and NYSDOT.

The **Sponsor** will grant or obtain, from or through the NYSDOT, Design Approval.

## Section 4 - Environmental

### 4.01 NEPA Classification

The **Consultant** will verify the anticipated NEPA Classification.

The project is determined to be a Categorical Exclusion. The **Consultant** will complete the NEPA Checklist, and forward the completed checklist to the **Municipality** for forwarding to the NYSDOT for a final NEPA determination.

### 4.02 SEQRA Classification

The project is determined to be classified as Type II.



## **Section 5 – Right of Way**

### **5.01 Right-of Way Boundaries**

Existing Right-of-Way Boundaries will be shown on the plans.

The existing Right-of-Way / Highway Boundaries will be determined from record plans or other data provided by the **Municipality**, and tax map information

### **5.02 Right of Way Survey, Mapping, and Acquisitions**

No Right of Way Survey, mapping, or acquisitions are anticipated.

## Section 6 - Detailed Design

### 6.01 Preliminary Bridge Plans (Not Used)

### 6.02 Advance Detail Plans (ADP)

The **Consultant** will develop the proposed bridge rehabilitation improvements to the ADP stage. At this stage the plans, specifications, estimates and other associated materials will be **90%** complete.

Advance Detail Plans may include, but are not limited to, the following contract sheet drawings:

- Title Sheet
- Index and legend
- Typical sections
- Traffic Control Plan
- Erosion and Sediment Control Plan
- General Plan
- General Profile
- Bridge Plans

The **Consultant** will prepare and submit 3 copies of the ADP's to the **Municipality** for review.

### 6.03 Contract Documents

The **Consultant** will prepare a complete package of bid-ready contract documents. The package will include:

- Instructions to bidders.
- Bid documents.
- Contract language, including applicable federal provisions and prevailing wage rates.
- Special notes.
- Specifications.
- Plans.
- PS&E Transmittal Memo
- Construction Management (Monitoring) Plan
- A list of supplemental information available to bidders (i. e., subsurface exploration logs, record as-built plans, etc.).
- Other pertinent information.

The **Consultant** will submit 5 preliminary copies of the contract documents to the **Sponsor** for review and comment. After revising the contract documents to incorporate comments, the **Consultant** will submit 5 copies of the final contract documents to the **Sponsor** for distribution. The **Sponsor** will submit 3 copies of the contract bid documents to NYSDOT as described in the *PLAFAP Manual*.

#### **6.04 Cost Estimate**

The **Consultant** will develop, provide, and maintain the construction cost estimate for the project. The **Consultant** will submit the initial estimate with the ADP's and will develop and provide the final Engineer's Estimate, including all quantity computations with the Contract Documents.

#### **6.05 Utilities**

The **Consultant** will coordinate with the known utility companies in the area of the bridge to identify and locate their facilities.

The **Sponsor** will assist with the coordination by providing names and contact information of the individuals the City routinely coordinates with regarding construction activity.

The **Consultant** will assist the **Sponsor** in preparing any necessary agreements with utility companies. The **Sponsor** will be responsible for obtaining signed agreements.

No relocations are anticipated.

#### **6.06 Railroads (Not Used)**

#### **6.07 Bridge Inventory and Load Rating Forms (Not Used)**

#### **6.08 Information Transmittal**

Upon completion of the contract documents, the **Consultant** will transmit to the **Sponsor** all project information, including electronic files. The electronic information will be in the format requested by the **Sponsor**. An electronic PDF copy of the contract documents will be submitted to the **Sponsor**.

## Section 7 - Advertisement, Bid Opening and Award

### 7.01 Advertisement

The **Consultant** will prepare the advertisement for bids to be placed in the NYS Contract Reporter and any other newspaper or publication identified by the **Sponsor**. The **Consultant** will submit the ad(s) to the **Sponsor** for review and will revise the ad(s) to reflect comments generated by that review. Upon approval by the **Sponsor**, the **Consultant** will place the advertisements.

Advertisements must not be placed until authorization is granted to the **Sponsor** by the NYSDOT.

A Pre-Bid Meeting will not be required.

### 7.02 Bid Opening (Letting)

The **Sponsor** will hold the public bid opening.

### 7.03 Award

The **Consultant** will analyze the bid results. The analysis will include:

- Verifying the low bidder.
- Ensuring receipt of all required bid documents (non-collusive bid certification, debarment history certification, etc.).
- Breaking the low bid into fiscal shares, if necessary.
- Determining, with assistance from the **Sponsor**, whether the low bidder is qualified to perform the work.
- Determining whether the low bid is unbalanced.
- For pay items bid more than 25% over the Engineer's Estimate:
  - Checking accuracy of quantity calculations.
  - Determining appropriateness of price bid for work in the item.
  - Determining whether the low bidder is qualified to perform the work.

The **Consultant** will assist the **Sponsor** in preparing and compiling the package of information to be transmitted to the NYSDOT.

The **Sponsor** will award the contract and will transmit the award package to the NYSDOT as described in the *NYSDOT PLAFAP Manual*.

## **Section 8 - Construction Support (Not Used)**

## **Section 9 - Construction Observation (Not Used)**

## **Attachment A - Estimating & Technical Assumptions**

### **10.01 Estimating Assumptions**

The following assumptions have been made for estimating purposes:

- Section 1) Estimate 4 meetings during the life of this agreement.  
Estimate 6 cost and progress-reporting periods will occur during the life of this agreement.
- Section 2) Assume that GPS methods and equipment will not be used to establish local control points.  
Estimate 0 accidents will require analysis.  
Estimate 0 capacity analyses will be required.  
Estimate 0 soil borings will be taken.
- Section 3) Estimate 1 cost estimate will be required during preliminary design.
- Section 4) Estimate 0 permits will be required.
- Section 5) Estimate 0 property acquisitions will be required.
- Section 6) Estimate 1 bridge will be rehabilitated.  
Estimate 1 cost estimate plus 1 update will be required.  
Estimate 0 utility companies and 0 railroad agencies will be affected.
- Section 7) Estimate 15 copies of the final contract bid documents will be needed for prospective bidders.
- Section 8) Not Used.
- Section 9) Not Used.

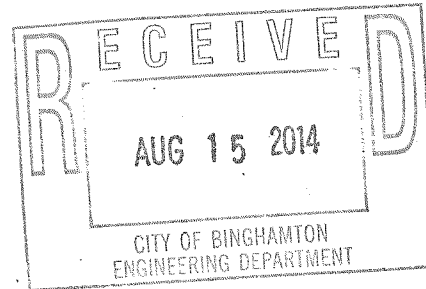
## 10.02 Technical Assumptions

- 12 concrete cores (6 from concrete parapet and 6 from deck) will be taken for use in evaluating the extent of rehabilitation improvements. Compressive testing will be performed on the cores.
- It is assumed that construction will be staged such that the bridge is open to two lanes of traffic and pedestrians at all times during construction.
- It is assumed that the existing concrete parapet will be repaired and/or replaced in-kind as necessary.
- The existing bridge is listed in the *Evaluation of National Register Eligibility – Task c3 of the Historic Bridge Inventory and Management Plan*. Therefore, the proposed bridge improvements will need to be coordinated with SHPO. It is assumed that the proposed bridge improvements will be minor such that the bridge appearance and historically significant features will not be altered. It is assumed that coordination efforts with SHPO will be limited to preparation of a letter outlining the proposed improvements.
- The existing light fixtures on the bridge will be repaired, not replaced.
- A bridge deck evaluation will be performed in accordance with NYSDOT guidelines to select the most appropriate bridge deck rehabilitation alternative.

**NOTE:** Design Survey/Mapping and a Load Rating are not required for this minor bridge rehabilitation project.



**E. Clinton Street Bridge Rehabilitation**  
**PIN 9753.85**  
**City of Binghamton**



8/11/14

**FEE SUMMARY**



1. DIRECT TECHNICAL LABOR
2. ESTIMATED OVERHEAD EXPENSES AND PAYROLL BURDEN  
Based on Percentage of Direct Salary Cost  
(exclusive of Premium Pay) with the estimated  
Percentage being 175.00 %
3. SUBTOTAL OF ITEMS 1 & 2
4. FIXED FEE / PROFIT
5. DIRECT EXPENSES
6. SUBCONSULTANT COSTS
7. SUBCONTRACT COSTS - (ESTIMATE )
- Concrete Cores
- Bridge Inspection Vehicle
8. OVERTIME PREMIUM
9. TOTAL FEE ESTIMATE

DESIGN / PLANNING SERVICES	CONSTRUCTION SERVICES
\$18,562.00	
\$32,483.50	
\$51,045.50	
\$7,656.83	
\$1,980.00	
\$15,000.00	
\$10,000	
\$5,000	
\$75,682.33	

10. TOTAL FEE FOR ALL SERVICES

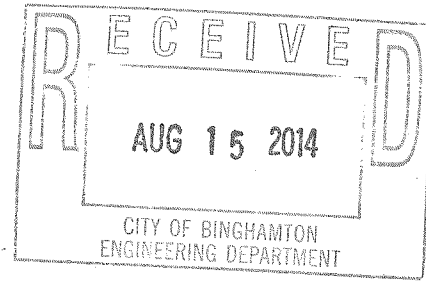
**\$75,683**

NOTE: Authorized hours worked in excess of forty per week are subject to a premium time charge

# E. Clinton Street Bridge Rehabilitation

PIN 9753.85

City of Binghamton



8/11/14



**McFarland Johnson**

## McFARLAND-JOHNSON LABOR RATES

### DIRECT TECHNICAL LABOR

<u>CLASSIFICATION</u>	<u>CURRENT AVG. RATE</u>	<u>PROJECT AVG. RATE</u>
Vice President (VP)	\$81.22	\$83.82
Regional Office/Division Manager (DM)	\$65.37	\$67.46
Senior Project Manager (SPM)	\$59.01	\$60.90
Sr. Project Engineer (SPE)	\$47.01	\$48.51
Project Engineer (PE)	\$42.13	\$43.48
Senior Engineer (SE)	\$35.54	\$36.68
Assistant Engineer (AE)	\$30.92	\$31.91
Junior Engineer (JE)	\$25.61	\$26.43
Senior Technician (ST)	\$27.71	\$28.60
Technician (T)	\$23.93	\$24.70
Junior Technician (JT)	\$14.40	\$14.86
Construction Supervisor / Resident Engineer (CS)	\$44.42	\$45.84
Senior Inspector (SI)	\$35.25	\$36.38
Inspector (I)	\$29.83	\$30.78

Assume Notice to Proceed:	10/31/2014
Design Project Duration (months):	8
Assume Salary Escalation:	4.0%

Year	Compounded Escalation Factor	% Work in year	Effective %
2014	1.000	20.0%	20.0%
2015	1.040	80.0%	83.2%
2016	1.082		
		100.0%	103.2%

# City of Binghamton



ESTIMATED HOURS

Page 102 of 110



# Legislative Branch

RL Number:

14-134

Date Submitted:

9/15/14

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

*Requests for Legislation (RLs) may be submitted to the City Clerk's Office for consideration at City Council Work Sessions. RLs generated from within City Hall departments must be submitted to the Mayor, Comptroller and Corporation Counsel for review before submission. RLs generated by citizens may be submitted directly to the City Clerk's Office.*

### Applicant Information

Request submitted by: Gary R. Holmes, P.E.

Title/Department: Acting City Engineer, Engineering Dept.

Contact Information: grholmes@cityofbinghamton.com

### RL Information

Proposed Title: Supplemental No. 2 for Additional Design Services and Additional Design and

Coordination Involving the USACE (Army Corp of Engineers), and SWPPP Preparation on the

Susquehanna North Bank Trail Development Project, PIN 9009.22, by Clark Patterson Lee (CPL)

Suggested Content: Supplemental No. 2 for additional design services and coordination with USACE

and SWPPP preparation by Clark Patterson Lee (CPL) on the Susquehanna North Bank Trail

Development Project- PIN 9009.22. Funding for this Supplemental No. 2 is available in budget line

H5410.525053.92206 - Waterfront. This project will be 77% reimbursed with Federal funds.

### Additional Information

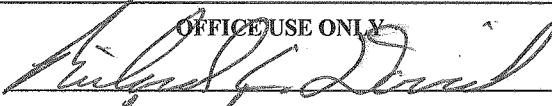

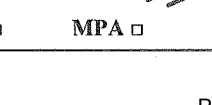
Does this RL concern grant funding? Yes ☐ No ☒

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☒

Is additional information related to the RL attached? Yes ☒ No ☐

Is RL related to previously adopted legislation? Yes ☒ No ☐

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s): O11-39

OFFICE USE ONLY	
Mayor:	
Comptroller:	
Corporation Counsel:	
Finance <input type="checkbox"/>	Planning <input type="checkbox"/> MPA <input type="checkbox"/> PW/Parks <input checked="" type="checkbox"/> Employees <input type="checkbox"/> Rules/Special Studies <input type="checkbox"/>

February 5, 2014

Phillip T. Krey, P.E.  
City Engineer  
Engineering Department City Hall  
38 Hawley Street  
Binghamton, NY 13901

**Re: Susquehanna North Bank Trail Development  
PIN 9009.22  
Supplemental #2**

Dear Phil,

Enclosed, please find 1 copy of our Design Supplemental #2 for the Susquehanna North Bank Trail Development project. The project has experienced complications due to unforeseen coordination issues, and project delays. These complications have caused Clark Patterson Lee to exceed our design budget.

Additional Project Management Due to Extension of Project Duration

The original contract called for a time schedule of approximately 24 months between December 2008 and December 2010. Supplemental #1 added an additional 24 months between December 2010 and December 2012. Further project delays have caused the schedule to slip and final design has extended to January 2014 for an additional 13 months.

Additional Design Effort to prepare the SWPPP

Clark Patterson Lee prepared a SWPPP for the project which was not part of the original scope of work.

Additional Design and Coordination involving the USACE

Clark Patterson Lee has spent a considerable amount of time corresponding with the USACE, revising the contract documents and addressing multiple rounds of comments from the USACE.

Supplemental for Construction Inspection

Clark Patterson Lee has prepared a fee for the Construction Inspection phase of the project. This fee includes 1 inspector for 4 months and some additional Project Management time for oversight and coordination.

Summary

The total supplemental amount for Additional Design and Construction Inspection is \$139,000.

We trust this submission is in accordance with your requirements and may be presented to City Council for approval. Please call if you have any questions.

Very truly yours,  
**CLARK PATTERSON LEE**

John J. Martin, P.E.  
Sr. Vice President

Enclosures

**Table A: Salary Schedule**  
**Susquehanna North Bank Trail Development**  
(PIN 9009.22)  
**Clark Patterson Lee**

February 3, 2014  
Page 1

JOB TITLE	ASCE (A) OR NICET (N) GRADE EQUIV.	SALARY Avg.	RANGE Max. 2014	RANGE Max. 2015	OVERTIME CATAGORY
Principal	VIII (A)	\$75.00	\$77.00	\$80.85	A
Project Manager	VII (A)	\$49.00	\$50.00	\$52.50	A
Landscape Architect	IV (A)	\$33.00	\$34.00	\$35.70	B
Sr. Project Engineer	VI (A)	\$46.00	\$47.00	\$49.35	B
Structural Engineer	V (A)	\$48.00	\$50.00	\$52.50	B
Project Engineer	IV (A)	\$44.00	\$45.00	\$47.25	B
Project Engineer	III (A)	\$28.00	\$29.00	\$30.45	B
Jr. Project Engineer	II/I (A)	\$24.00	\$25.00	\$26.25	C
Technician IV	IV (N)	\$33.00	\$34.00	\$35.70	C
Technician III	III (N)	\$31.00	\$32.00	\$33.60	C
Technician II	II (N)	\$13.00	\$14.00	\$14.70	C
Resident Engineer	IV (N)	\$35.00	\$36.00	\$37.80	C
Construction Inspector	III (N)	\$26.00	\$27.00	\$28.35	C
Construction Inspector	II (N)	\$22.00	\$23.00	\$24.15	C
Technical Typist	NA	\$22.00	\$23.00	\$24.15	NA

**OVERTIME POLICY**

Category A - No overtime compensation.

Category B - overtime compensated at straight time.

Category C - overtime compensated at straight time rate X 1.50

Overtime applies to hours in excess of of the normal working hours of 40 hours per week.

**Table B: Direct Technical Labor**  
Susquehanna North Bank Trail Development  
(PIN 9009.22)

Clark Patterson Lee

JOB TITLE	ASCE (A) OR NICET (N) GRADE EQUIV.	PROJECTED HOURLY RATE	TASKS											
			II		III		IV		V		VI		VII	
			Hours	Salary	Hours	Salary	Hours	Salary	Hours	Salary	Hours	Salary	Hours	Salary
Principal	VIII (A)	\$77.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	13	\$1,001.00	0	\$0.00
Project Manager	VII (A)	\$50.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	180	\$9,000.00	0	\$0.00
Landscape Architect	IV (A)	\$34.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Sr. Project Engineer	VI (A)	\$47.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	64	\$3,008.00	0	\$0.00
Structural Engineer	V (A)	\$50.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Project Engineer	IV (A)	\$45.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Project Engineer	III (A)	\$29.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	120	\$3,480.00	0	\$0.00
Jr. Project Engineer	III (A)	\$25.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Technician IV	IV (N)	\$34.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Technician III	III (N)	\$32.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Technician II	II (N)	\$14.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Resident Engineer	IV (N)	\$36.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Resident Engineer (OT)	IV (N)	\$36.00												
Construction Inspector	III (N)	\$27.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Construction Inspector	II (N)	\$23.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Technical Typist	NA	\$23.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
TOTALS			0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	377	\$16,489.00	0	\$0.00
													909	\$33,210.00

**TASK DESCRIPTION**

- II DESIGN SURVEY AND MAPPING
- III ROW SURVEY AND MAPPING
- IV PRELIMINARY TRAIL DESIGN
- V ENVIRONMENTAL STUDIES
- VI DETAILED DESIGN
- VII FINAL CONTRACT DOCUMENTS AND ESTIMATES
- VIII BID & AWARD
- IX CONSTRUCTION SUPPORT SERVICES
- X CONSTRUCTION INSPECTION SERVICES



**Table C: Direct Non-Salary Costs (does not include sub-consultants)**  
**Susquehanna North Bank Trail Development**  
(PIN 9009.22)  
**Clark Patterson Lee**

February 3, 2014  
Page 3

					Reimbursable Costs
1.	Travel				
	Travel to Meetings	6 trips @ 30 miles ea. @ \$0.585/mile			\$0.00
2.	Drawings, Reports, Reproduction (Materials for Design Report, Public Meeting, and Contract Documents)				
		Each	Sheets	Total	
	Vellums	\$1.00	0	\$0.00	
	Prints	\$0.50	10	\$5.00	
	Mylars	\$5.00	0	\$0.00	
	Report Copies	\$0.12	2000	\$240.00	
	Plan Copies	\$0.12	300	\$36.00	
	Color Copies	\$1.50	50	\$75.00	
	Total Drawings, Reports, Reproduction				\$0.00
3.	Survey Personnel Costs				
	Wage Differential		Hours	Rate	Total
	Party Chief	III (N)	0	\$7.43	\$0.00
	Instrument/Rod Person	II (N)	0	\$13.13	\$0.00
	Sub-Total Wage Differential				\$0.00
	Supplemental Benefits		Hours	Rate	Total
	Party Chief	III (N)	0	\$14.56	\$0.00
	Instrument Person	II (N)	0	\$14.83	\$0.00
	Sub-Total Supplemental Benefits				\$0.00
	Total Survey Personnel				\$0.00
3.	Sampling & Testing				
	Soil Borings (assume 2)			\$3,000.00	\$0.00
4.	Postage and Shipping (estimated)				
	\$80				\$0.00
5.	Photographs				
	0 rolls @	\$10.00	\$0.00		
	160 reprints @	\$0.25	\$40.00		
	Total Photographs				\$0.00
<b>Total Direct Non-Salary Costs</b>					<b>\$0.00</b>

**Table D: Summary of Costs**  
Susquehanna North Bank Trail Development  
(PIN 9009.22)  
Clark Patterson Lee

	Direct Labor	Premium Overtime Labor	Overhead	Fixed Fee	Total
II DESIGN SURVEY AND MAPPING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
III ROW SURVEY AND MAPPING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
IV PRELIMINARY TRAIL DESIGN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
V ENVIRONMENTAL STUDIES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
VI DETAILED DESIGN	\$16,489.00	\$0.00	\$24,733.50	\$6,183.38	\$47,405.88
VII FINAL CONTRACT DOCUMENTS AND ESTIMATES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
VIII BID & AWARD	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
IX CONSTRUCTION SUPPORT SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
X CONSTRUCTION INSPECTION SERVICES	\$30,780.00	\$2,430.00	\$46,170.00	\$11,542.50	\$90,922.50
DIRECT NON-SALARY COSTS					\$0.00
Subconsultant Cost: MJ Engineering (Design Surveying and Mapping and Environmental Studies)					\$0.00
Subconsultant Cost: Deuel Archeological					\$0.00
Subconsultant Cost: Woidt Engineering					\$0.00
<b>TOTAL</b>					<b>\$138,328.38</b>
<b>Maximum Amount Payable</b>					<b>\$139,000.00</b>

Overhead = 150% on Direct Labor only  
Fixed Fee = 15% on Direct Labor + Overhead

**Susquehanna North Bank Trail Development  
Supplemental #2**

Scope Section	Description	Principal	Project Manager	Landscape Architect	Sr. Project Engineer	Structural Engineer	Project Engineer	Project Engineer	Jr. Project Engineer	Technician IV	Technician III	Technician II	Resident Engineer	Construction Inspector	Construction Inspector	Technical Typist	Total Hours
		VIII (A)	VII (A)	IV (A)	VI (A)	V (A)	IV (A)	III (A)	III (A)	IV (A)	III (N)	II (N)	IV (N)	III (N)	II (N)	NA	
<b>General</b> This supplemental Agreement #2 is for additional project management due to extension of project duration, additional design effort to prepare the SWPPP, additional design and coordination involving the USACE and supplemental for construction inspection services.																	
<b>II DESIGN SURVEY AND MAPPING</b>																	
	TOTAL - DESIGN SURVEY AND MAPPING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>III ROW SURVEY AND MAPPING</b>																	
	TOTAL - ROW SURVEY AND MAPPING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>IV PRELIMINARY TRAIL DESIGN</b>																	
	TOTAL - PRELIMINARY TRAIL DESIGN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>V ENVIRONMENTAL STUDIES</b>																	
	TOTAL - ENVIRONMENTAL STUDIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>VI DETAILED DESIGN</b>																	
	Additional Project Management due to extension of project duration. 13 months at 8hrs per month =	13	104														117
	Preparation of the SWPPP		16		40		60	60									116
	Additional design and coordination involving the USACE		60		24		60	60									144
	TOTAL - ADVANCED DETAIL TRAIL PLANS	13	180	0	64	0	0	120	0	0	0	0	0	0	0	0	377
<b>VII FINAL CONTRACT DOCUMENTS AND ESTIMATES</b>																	
	TOTAL - FINAL TRAIL PS&E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>VIII BID &amp; AWARD</b>																	
	TOTAL - BID & AWARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>IX CONSTRUCTION SUPPORT SERVICES</b>																	
	TOTAL - CONSTRUCTION INSPECTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>X CONSTRUCTION INSPECTION SERVICES</b>																	
	Construction Inspection oversight and Coordination 4 months x 8hr/mo		24														24
	Inspection: Preconstruction		4										40				44
	Inspection: 1 inspector 3 months x 170 hrs/month												510				510
	Inspection: 1 inspector 3 months x 45 hrs/month - OT												135				135
	Inspection: Post construction and closeout		8										120				128
	TOTAL - CONSTRUCTION ADMINISTRATION	0	36	0	0	0	0	0	0	0	0	0	805	0	0	0	841
<b>TOTAL ESTIMATED HOURS</b>																	
		13	216	0	64	0	0	120	0	0	0	0	805	0	0	0	1218



# Legislative Branch

RL Number:

14-123

Date Submitted:

8-27-14

City Clerk, City Hall, Binghamton, NY 13901 607-772-7005

## REQUEST FOR LEGISLATION

*Requests for Legislation (RLs) may be submitted to the City Clerk's Office for consideration at City Council Work Sessions. RLs generated from within City Hall departments must be submitted to the Mayor, Comptroller and Corporation Counsel for review before submission. RLs generated by citizens may be submitted directly to the City Clerk's Office.*

### Applicant Information

Request submitted by: Richard C. David

Title/Department: Mayor

Contact Information: 772-7013

### RL Information

Proposed Title: AN ORDINANCE ADOPTING A MORATORIUM ON SECTIONS 410-51.E

AND H OF THE CODE OF THE CITY OF BINGHAMTON ALLOWING REQUIRED OFF-STREET

PARKING TO BE PROVIDED IN A PUBLIC OFF-SITE FACILITY

Suggested Content: To be drafted by Corporation Counsel

### Additional Information

Does this RL concern grant funding? Yes ☐ No ☒

If 'Yes', is the required RL Grant Worksheet attached? Yes ☐ No ☐

Is additional information related to the RL attached? Yes ☐ No ☒

Is RL related to previously adopted legislation? Yes ☐ No ☒

If 'Yes', please provide Permanent Ordinance/Resolution/Local Law number(s): \_\_\_\_\_

OFFICE USE ONLY	
Mayor:	<u>Richard C. David</u>
Comptroller:	<u>[Signature]</u>
Corporation Counsel:	<u>[Signature]</u>
Finance <input type="checkbox"/>	Planning <input checked="" type="checkbox"/>
MPA <input type="checkbox"/>	PW/Parks <input type="checkbox"/>
Employees <input type="checkbox"/>	Rules/Special Studies <input type="checkbox"/>